

We build Tamiya's all-new P-51D Mustang »

FineScale Modeler

www.FineScale.com
November 2011



See the full review of this
1/32 scale kit — page 74

The essential tool for model builders

START BUILDING!

TIPS AND TRICKS FROM THE FSM STAFF
TO GET YOU STARTED TODAY

- Apply perfect decals
- Top tools
- Model paint explained
- Choose the right glue
- Term glossary
- And more!



PLUS

Perfect base coats: Mr. Surfacer explained
Finishing techniques for a high-tech warship
Model the Army's top rocket launcher

Larry Schramm reviews
the 1/32 scale HobbyBoss
F-84E Thunderjet —
page 76

OUR EXPERTS BUILD AND REVIEW **8** NEW KITS!



Humber Mk.IV



HH-60J Jayhawk



Land Rover Defender



P-47N Thunderbolt

\$5.95



0 72246 46779 4

Vol. 29 • Issue 9

11

Innovation is EVERYTHING



NEW!

BRITISH 1/35TH INFANTRY TANK VALENTINE MK.1 WITH CREW

The kit features five figures and more than 700 parts as well as photo-etched details. A complex "2-pounder gun" and a complete radiator and transmission assembly are also provided. (Item #5835116)



NEW!

BUDAPEST 1945- A WAR-TORN BUILDING

This 1/35th diorama of a bombed-out building in Hungary recreates a lull in the battle. Scale accessories include a self-propelled gun, shells, five soldiers and signs. (Item #5836007)



NEW!

GERMAN FELDGENDARMERIE FIGURES

These five, 1/35 German Military Police are complete with rifles, machine gun, satchel, hatchet and signpost. Some uniforms even showcase the Feldgendarmerie Gorget. (Item #5835046)



At MiniArt innovation guides our selection. Our series of plastic kits deliver subject matter and quality levels you won't find elsewhere.

Diorama's only available from

MiniArt ... our 1/35 Diorama Series is the only one in plastic. The series highlights new and war-torn buildings true to period architecture ... many include figures and weaponry

In scale figures, accuracy is everything ... well known sculptors often create a "blueprint" for our molding craftsmen. The results are facial contours and expressions so real you'll often recognize nationalities. These detailed figures can be found in our: 1/35 WWII Military Miniatures; 1/72 Historical Miniatures; and 1/16 Historical Figures, the first series of its kind in plastic.

See the complete line of MRC-MiniArt plastic kits at www.modelrectifier.com

MiniArt WHERE INNOVATION IS ALWAYS AT WORK.



MODEL RECTIFIER CORPORATION
80 Newfield Ave. ■ Edison, New Jersey 08837 ■ Phone: 732 225 6360 www.modelrectifier.com



TECHNOLOGY. PERFECTED.

☐ Model railroads ☐ Plastic model kits ☐ Battery chargers ☐ Radio control helicopters, planes, cars & boats ☐ Slot Cars ☐ Scenery ☐ Die cast

To learn more scan this QR code with your smart phone. Or go to modelrectifier.com



M1 SUPER SHERMAN

Defeating Goliath's Armor

Following Israel's declaration of independence in 1948, the Israeli Defense Forces chose the M4 Sherman as its first mainstay tank. However, most of their initial Shermans were armed with either the 75mm gun or 105mm howitzer, which were ineffective against the T-34/85 tanks that were fielded by Arab armies in 1956. In response, the IDF purchased M4A1 tanks from France. These were armed with the more powerful 76mm M1 gun and were thus designated by the IDF as M1 Super Shermans. Tamiya's 1/35 Scale Military Miniature Series kit depicts this tank, which served the IDF from the Suez Crisis in October 1956 until well into the 1970s. Tamiya designers visited Latrun, Israel to study an actual example and this first-hand research has resulted in a highly accurate model. Turret details such as the distinctive muzzle brake and one-piece loader's hatch have been precisely rendered. The curved form of the tank's hull also features realistic cast metal texture.

1/35 Scale Israeli Tank M1 Super Sherman

Item 35322



● Highly detailed Vertical Volute Spring Suspension.

● T54E1 tracks are accurately depicted.

Length: 210mm

**1/35
SCALE**

● 3 marking options are included.

● Comes with commander and loader figures.



Image is courtesy of The Armored Corps Memorial Site and Museum at Latrun.

The Armored Corps Memorial Site and Museum at Latrun is located in central Israel and has over 100 IDF and captured tanks in its collection. The site also features a memorial to fallen Armored Corps soldiers.

● Images show assembled and painted model kit.

● Product may vary from images shown.

© 2011 TAMIYA

1/35 Scale Sherman Lineage

Tamiya's 1/35 MM Series also offers kits of the early-production M4 and late-production 75mm and 105mm gun-armed M4A3s to enable modelers to build some of the M1 Super Sherman's predecessors.



U.S. M4 Sherman (Early Production)



U.S. M4A3 Sherman Late Production 75mm Gun (Frontline Breakthrough)



U.S. M4A3 Sherman 105mm Howitzer (Assault Support)

© TAMIYA AMERICA INC. 36 DISCOVERY SUITE 200, IRVINE, CA 92618

TAMIYA
WWW.TAMIYAUSA.COM

Sometimes from warships, sometimes through the freezing cold mountains, and sometimes in the skies above the jungle
This most reliable plane, known as a flying "Tough Guy" is coming as a new SWS!

Douglas
1/32

A-1H SKYRAIDER

U.S. NAVY



No. 3

PRICE: **13,440YEN** PRICE: **\$141.00**

Order via Volks Japan (in JP Yen) Order via Volks USA (in US Dollars)

*The model in the picture shown is a sample from the development stage.

• 1/32 scale • Plastic Model Kit (4-color molded parts including clear.) Main wings can be folded. Main wing folding system includes brass hinges and poly-caps. • Total Parts: 340 (expected)

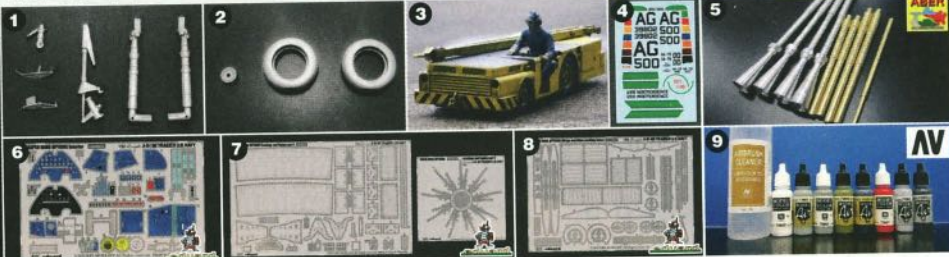
SUPER
WING
OPTIONS

A-1H SKYRAIDER EXTRA PARTS

ALSO AVAILABLE

U.S. AIRCRAFT
WEAPONS

2,100YEN/\$22.00



- 1 METAL STRUTS: 2,100YEN/\$22.00 2 WEIGHTED TIRES: 1,260YEN/\$13.00 3 MD3 SET: 6,090YEN/\$64.00 4 A-11 NAVY TYPE MARKING 1: 1,890YEN/\$20.00
5 TURNED METAL MACHINE GUN & PITOT TUBE SET: 2,310YEN/\$24.00 6 PHOTO-ETCHED INTERIOR SET: 1,890YEN/\$20.00 7 PHOTO-ETCHED FUSELAGE AND ENGINE SET: 1,890YEN/\$20.00
8 PHOTO-ETCHED WINGS AND MAIN LANDING GEARS SET: 1,890YEN/\$20.00 9 VALLEJO COLOR SET (A-1H Color Set): 2,310YEN/\$24.00

No. 4



To be released in this winter



1/32 **P-51D**
Mustang

DEVELOPMENT HAS BEEN
PROGRESSING SMOOTHLY!

We're planning an astonishing campaign!!

You may already know of SWS's magnificence from seeing it at the store, from advertisements, models completed by others, or by word-of-mouth. Still, you will never know its true splendor until you touch it!! Therefore, such magnificence is further proven in the SWS "P-51D"!!



60

AIBRUSHING & FINISHING

20 Mr. Surfacer is many things

It's handy stuff — here's how to use it
AARON SKINNER

22 Scale modeling glossary

Come to terms with modeling lingo

COVER STORY

24 Start building!

Tips, techniques, and tools to tackle

SCALE MODELING ESSENTIALS

30 Model ship building basics

Part 3: Priming, masking, and painting
AARON SKINNER

40 How to model an MLRS

This rocket launcher is right on target
DENNIS GERBER

46 Weathering a P-51B

Modeling well-used natural metal
RAÚL CORRAL

HISTORY YOU CAN MODEL

50 North American F-86 Sabre

America's answer to the MiG in Korea
MARK HEMBREE

WORKBENCH REVIEWS

8 NEW KITS! p. 56

- Tamiya P-51D Mustang
- Cyber-hobby F6F-5N Hellcat
- Skunk Models Workshop HH-60J Jayhawk
- HobbyBoss F-84E Thunderjet
- Bronco Humber Mk.IV armored car
- Sword Republic P-47N Thunderbolt
- HobbyBoss Land Rover
- Airfix Vickers Valiant



56



59



64

In Every Issue

- | | |
|-------------------|---------------------------|
| 6 Editor's Page | 52 Questions & Answers |
| 8 Scale Talk | 54 Reader Tips |
| 12 Spotlight | 68 Hobby Shop Directory |
| 14 New Products | 69 Classified Marketplace |
| 34 Reader Gallery | 70 Advertiser Index |

On the Cover

Gleaming in its natural-metal finish and brimming with detail, Larry Schramm's F-84E Thunderjet is razor sharp. Start with our Modeler's Guidebook and turn your models into masterpieces!

Get more at www.FineScale.com!

Visit our website! You can enjoy more modeling photos and feature articles, access additional modeling resources, get industry news, see previews of upcoming issues, or register to participate in discussions on our Forum. And it's free!

Subscribers: Click on "Register," enter the customer number from your subscription label, and throughout your subscription you'll have unlimited access to bonus features, more than 1,000 kit reviews, and a database of more than 12,000 products!

FineScale Modeler (ISSN 0277-979X, USPS No. 679-590) is published monthly (except for June & August) by Kalmbach Publishing Co., 21027 Crossroads Circle, P.O. Box 1612, Waukesha, WI 53187. Periodicals Postage is paid at Waukesha, WI and additional offices. Postmaster: Send address changes to FineScale Modeler, 21027 Crossroads Circle, P.O. Box 1612, Waukesha, WI 53187-1612. Canada Post Publication Mail Agreement #40010760.

Editor's Page

By Matthew Usher



Getting past the formalities

HAVE YOU MET Mr. Surfacer? I have some familiarity with Gunze Sangyo's multipurpose primer/filler, but I still haven't spent enough time working with it to feel like we're on a first-name basis. That will undoubtedly change thanks to this month's Airbrushing & Finishing column, where we cover the basics of working with this versatile finishing material. After you've read the article, let us know what uses you've discovered for Mr. Surfacer. Send them to me at the address below and we'll share the best examples in an upcoming issue of the magazine.

We're always happy to showcase the work of other modelers, but this month we're especially happy

to announce the completion of an impressive project from one of our own staff members. *FSM's* Associate Editor Aaron Skinner just finished his first book, *Essential Skills for Scale Modelers*, and it's available from Kalmbach Books.

Aaron shows how to build, paint, weather, and decal all types of models (including aircraft, armor, ships, cars, and figures), and along the way he explains how to get the most from an airbrush, how to apply photoetched-metal detail parts, and how to work with cast-resin components. It's a great reference, no matter what you build.

Aaron's book is \$21.95, and is available in hobby shops (to find one near you visit www.HobbyRetailer.com).

You can also buy your copy online at www.KalmbachStore.com, or call 800-533-6644. Outside the United States and Canada, call 262-796-8776, ext. 661.

Speaking of *FineScale* staff members, our Editorial Associate Megan McChain is leaving *FSM* to take on a new position in our parent company's Internet Marketing department. Thanks for all your hard work, Megan, and best of luck in your new job!

MATTHEW USHER

editor@finescale.com

www.FineScale.com

Want to learn more? For the latest news as well as modeling tips and techniques, visit our website at www.FineScale.com

Contact Us

GENERAL

Editorial: FineScale Modeler
21027 Crossroads Circle, P.O. Box
1612, Waukesha, WI 53187-1612
262-796-8776, weekdays 8:30 a.m. to
5 p.m. CT
Fax: 262-796-1383
editor@finescale.com
Website: www.FineScale.com

Customer service (subscriptions,
renewals, and consumer products):
800-533-6644, weekdays 8:30 a.m. to
4:30 p.m. CT; outside the U.S. and
Canada 262-796-8776 ext.421
Fax: 262-796-1615
customerservice@kalmbach.com

Advertising and trade orders:
888-558-1544, weekdays 8:30 a.m. to
5 p.m. CT; outside the U.S.,
262-796-8776 / Fax: 262-796-0126
Advertising e-mail:
jhagerty@finescale.com
Trade Sales e-mail:
tradesales@kalmbach.com

SCALE TALK

Let us know what you think!
Comments, suggestions,
corrections, and additional views
on *FSM* articles are welcome.
Mailed letters (address at left
under *General*) should be typed or
hand-printed and clearly marked
"To the Editor" on the envelope.
You can e-mail your comments to
editor@finescale.com or visit
FineScale.com and click on
"Contact Us." Comments should
be no more than 300 words. Please
tell us your name and location.

READER GALLERY

Show off your handiwork! Mail
digital images or prints along with
complete caption information to
"Reader Gallery" (address at left),
or upload digital images and
caption information at www.Contribute.Kalmbach.com. We
prefer unedited, "camera raw"

digital images. Photos are paid for
at publication; if you live in the
U.S., include your Social Security
number so we can pay you. *FSM*
obtains all publication rights
(including electronic rights) to the
images upon payment. Unused
photos are returned only if you
provide sufficient postage and
packing materials.

QUESTIONS & ANSWERS

Got a modeling problem? Our
Questions & Answers column is
here to help. Mail questions to
"Q&A" (address at left), e-mail
questions@finescale.com, or visit
FineScale.com and click on
"Contact Us." (For scale modeling
basics, visit our website and look
through our "How To" article
archives.) We are not able to
conduct lengthy research, such as
answering questions on markings
and unit histories. We publish

letters of general interest in the
magazine; however, mail volume
and space limitations prevent us
from printing every question.
Please include your name, town,
state, and a daytime phone number.

READER TIPS

**Would you like to share an idea
about a tool or technique — and
make a few dollars too?** Send a
brief description along with a
photograph or sketch to "Reader
Tips" (mail address at left; please
enclose a stamped, self-addressed
envelope for the return of photos.
E-mail tips@finescale.com or visit
FineScale.com and click on
"Contact Us." Tips are paid for
upon publication; if you live in the
U.S., we'll need your Social
Security number to pay you.
FSM obtains all publication rights
(including electronic rights) to the
text and images upon payment.

FineScale Modeler

Editor Matthew W. Usher
Associate Editor Mark Hembree
Associate Editor Aaron Skinner
Editorial Associate Monica Freitag
Editorial Associate Megan McChain
Art Director Tom Ford
Senior Graphic Designer Patti L. Keipe
Illustrator Jay W. Smith
Photographers Jim Forbes, William Zuback
Production Supervisor Helene Tsigistras
Production Coordinator Cindy Border
Group Circulation Manager Catherine Daniels
Circulation Specialist Valerie Jensen
Circulation Coordinator Brian Qualman
Publisher Terry D. Thompson

CONTACT US

Customer Sales and Service 800-533-6644
Advertising Sales 888-558-1544
Ad Sales Manager Scott Redmond, Ext. 533
Ad Sales Representative Jim Hagerty, Ext. 549
Ad Services Representative Jodi Jeranek, Ext. 620

SELLING FINESCALE MODELER MAGAZINE OR PRODUCTS IN YOUR STORE

Phone 800-558-1544, Press 3
Outside U.S. & Canada 262-796-8776, Ext. 818
Fax 262-798-6592
E-mail fss@Kalmbach.com
Website www.Retailers.Kalmbach.com

KALMBACH PUBLISHING CO.

President Gerald B. Boettcher
Executive Vice President Charles R. Croft
Vice President, Advertising Scott Stollberg
Vice President, Editorial Kevin P. Keefe
Vice President, Marketing Daniel R. Lance
Corporate Art Director Maureen M. Schimmel
Managing Art Director Michael Soliday
Corporate Circulation Director Michael Barbee
Single Copy Sales Director Jerry Burstein

ADVISORY BOARD

John Noack, Paul Boyer, Shep Paine, Bob Collignon, Cookie Sewell, Pat Covert, Rusty White, Pat Hawkey

©2011, Kalmbach Publishing Co. All rights reserved. Title is registered as trademark. This publication may not be reproduced in part or in whole without written permission from the publisher, except in the case of brief quotations used in reviews. **Postmaster:** Periodicals postage paid at Waukesha, Wisconsin, and additional offices. Send address changes to *FineScale Modeler*, Kalmbach Publishing Co., 21027 Crossroads Circle, P.O. Box 1612, Waukesha, WI 53187-1612.

SUBSCRIPTION RATES: U.S., 10 issues, \$39.95; 20 issues, \$74.95; 30 issues, \$106.95. Canada, 10 issues, US\$47.95; 20 issues, US\$87.95; 30 issues, US\$126.95. International, 10 issues, US\$51.95; 20 issues, US\$98.95; 30 issues, US\$142.95. Canadian price includes GST (Canada Publication Mail Agreement #40010760, BN 12271 3209 RT). **Expedited Delivery Service:** Domestic First Class, add \$20/yr.; Canadian Air, add US\$20/yr.; International Air, add US\$45/yr.

Letters, new releases, and new-product information are accepted as gratis contributions to *FineScale Modeler*. Feature articles and scale drawings are paid for on acceptance. All other submissions are paid for upon publication, at which time *FineScale Modeler* obtains all reproduction rights unless otherwise agreed. Instructions for submitting features, photographs, and drawings for publication are available from the editorial associate. Unsolicited material will be returned only if postage and envelope are provided. *FineScale Modeler* is not responsible for the safe return of unsolicited material. Printed in U.S.A.

KALMBACH PUBLISHING CO.



Thousands of plastic kits in stock! Cottage Industries are our specialty! If we haven't got it, we'll get it!

OLIMP MODELS



R72-050 Hawker Hunter
T.8M 1/72



R72-048
Hawker Hunter
T.7/T.8C/T.53 1/72



R72-030 Boeing P-12
B/D 1/72



R72-049
Hawker Hunter
T.66/T.66A/T.66B/T.68



P72-006
Curtis P-6E "Hawk"
1/72

117 E. Chicago Blvd.
Tecumseh, MI 49286
Hours: Tuesday – Saturday
10:00am – 5:00pm

Shop: 517/423-3684
Web: www.jbarhobbies.com
E-mail: jbar@jbarhobbies.com

ALBION ALLOYS
Precision Metals



Bringing Precision Metals to Scale Modelling
Slide Fit Micro Tubes & More...

Contact us: sales@albionalloys.co.uk
for your nearest US Dealer

Model by Andy Argent



Micro-Mark www.MicroMark.com
Berkeley Heights, NJ 07922 **1-800-225-1066**

FREE
Catalog with any order!

Your email address is your



to exclusive web-only sales, special offers, product previews, and much more!

Sign up for the Micro-Mark Newsletter today at www.micromark.com!

Be sure to enter promo code 3875 <http://www.micromark.com/EmailRequest.aspx>

Scale Talk

Your voice in FSM

Sensory overload

As a northern Virginia resident, I read Editor Matthew Usher's laudatory comments in the July 2011 issue about the Udvar-Hazy Center with interest. If you haven't visited the National Museum of the United States Air Force at Wright-Patterson Air Force Base, I recommend a visit. If you want to see World War I and World War II aircraft in action, not just hanging from ceilings or on floors, you must go the Military Aviation Museum in Virginia Beach for the WWI fly-in in the fall; there was a WWII event in May. Both events are annual.

At the WWII event, there was a Wildcat, a Corsair, a Mustang, a Hurricane, a Yak-3, a P-40, a Spitfire, a Fiesler Storch, a Ju 52, a B-25, a B-17, an Fw 190, a PBX Catalina, a TBM Avenger, a Dakota which dropped paratroopers, and a Lancaster taking off from a field right in front of spectators and doing low passes. After the flying ended each day, the aircraft parked and visitors could examine each at a very close range from all angles. They were all in fac-

Modeling memories

Randall Todd's Revell 1/25 scale '55 Chevy Bel Air, featured in the July issue's Reader Gallery, virtually leapt off the page for me. It was the very first car I owned, and I enjoyed showing it to my wife and kids. Surprisingly, my kids thought it was cool! I am definitely going to get one to build. I mostly build World War II airplanes in 1/48 scale, so this is going to be a fun diversion. My sense of color matching is not great and I wonder if you could find out for me exactly what Model Master blue and white Randall used.

Thanks for all the enjoyment and help *Finescale Modeler* brings.
— Jim Miller
Irvington, N.Y.



Randall Todd painted his '55 Chevy Bel Air using Testors Model Master enamels gloss white (No. 2144) and light blue (No. 1108) on the exterior, and gloss white and grabber blue (No. 2764) on the interior.

HOW-TO

PRODUCTS & REVIEWS

VIDEOS

COMMUNITY

GALLERIES



Now at FineScale.com

HOW TO

Article archive

Search our article collection to find the answer to your modeling question.

Tips database **FSM+**

Need modeling advice? Subscribers can search our extensive database of reader-supplied tips.

ONLINE EXTRAS

Desktop wallpaper

Download an image of Fraser Gray's battle-worn Italeri IS-2 to your desktop.

Weathering tips for a Spitfire **FSM+**

In the September 2011 FSM, Aaron Skinner shows how to paint hard-edged schemes on RAF aircraft using paper



masks. Here's how he weathered the Spitfire in that story.

KIT REVIEWS

Workbench Reviews **FSM+**

Subscribers receive early access to upcoming reviews.

Weekly free review

Check out this week's free model kit review.

MULTIMEDIA

E-mail newsletter

Sign up for our free newsletter and have valuable information delivered to your inbox.

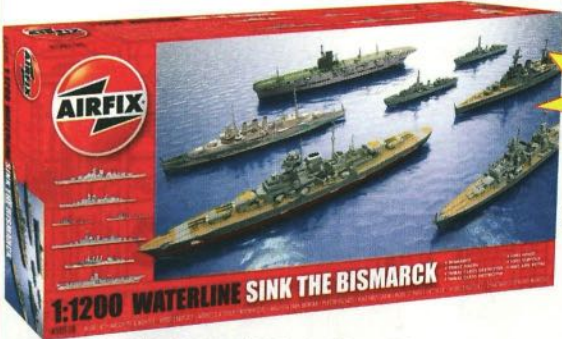
Video issue previews

FSM Editor Matthew Usher highlights what's inside the current and past issues.



SUBSCRIBE AT FINESCALE.COM AND GET IMMEDIATE ACCESS

The FSM+ icon indicates subscriber-only content



AIRFIX

NEW FOR 2011

Six Waterline Ships

- HMS Cossack
- HMS Suffolk
- HMS Hood
- Bismarck
- HMS Ark Royal
- Prinz Eugen

#A50120 - "Sink the Bismarck"

HORNBY
HORNBY AMERICA

www.airfix-usa.com

We now carry the Humbrol lineup of Adhesives and fillers

Finally, A Tough Super Glue



GORILLA
100% TOUGH
SUPER GLUE
IMPACT-TOUGH FORMULA

FOR THE TOUGHEST JOBS ON PLANET EARTH®

GORILLA TOUGH

1-800-966-3458 Made in USA

© 2011 Gorilla Glue Company

Practice makes perfect.

Practice your airbrushing skills on our Elco PT Boat, c.1942 (the same as PT-109). Choose either a green camouflage (Pacific) or gray (Atlantic) paint scheme. Our kit was researched and designed by famed historian/modeler Dr. Al Ross. Because of the large number of very small parts and the delicate detailing required, this kit is recommended for intermediate to advanced modelers.



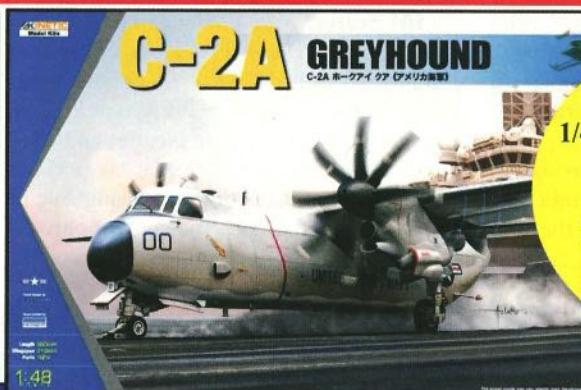
80' ELCO ***
PT BOAT**
LOA 20" HT. 6" SCALE 1/4"
#K1005 *\$275.00

800-448-5567
160 E. MAIN ST. (RTE.1) SEASPORT, ME 04974
www.bluejacketinc.com

Open Year Round
BLUEJACKET
SHIP CRAFTERS™

KINETIC Model Kits

#61007
1/35 MRAP (M-ATV)
All-Terrain Vehicle
100% NEW TOOLING!
SRP \$74.95
Arrival January 2012



#48025
1/48 USN C-2A Greyhound
Twin-Engine
Cargo Aircraft
85% NEW TOOLING!
SRP \$109.95
Arrival November 2011

#48023
1/48 A-6E Intruder
Twin-Engine
Attack Aircraft
100% NEW TOOLING!
SRP \$74.95
Arrival December 2011



Visit our website for complete listings. Visit your local Hobby Shop!

Stevens

International

IMPORTERS AND DISTRIBUTORS OF HOBBY SPECIALTIES
WHITE HORSE PIKE & MARION AVE., MAGNOLIA, NJ 08049
PHONE: 856-435-7645 FAX: 856-627-6274
E-MAIL: INFO@STEVENSHOBBY.COM WWW.STEVENSHOBBY.COM

Scale Talk

tory-fresh condition. If you like sensory overload, you should go see and hear a Corsair, Avenger, or B-17 fire up 20' away, taxi out, and take off 200' in front of your nose.

— John Scott Williams
Fairfax Station, Va.

Overseas modeling trips

There was a time some years ago when a trip to the hobby shop took me more than 3,500 miles from home. I called them my modeler's weekends in England. Usually, I flew from the United States on a Thursday night and arrived in London on a Friday morning. Friday afternoons I would ride the Underground to Colindale, where the Hannants shop was located just steps outside of the tube station. In 2006, Hannants became independently owned and moved to a building next to the Royal Air Force Museum.

Saturdays, I went to the Hannants warehouse in Lowestoft, the "most easterly place in the United Kingdom." First, I was always sure to sign the guest book located inside the front door so that the local fire brigade will know you're in there in case of an emergency. Then I had the run of the building. Thousands of model kits, decals, detail parts, books, and paints were available to look at, and the friendly and knowledgeable staff helped me find whatever I needed.

Sundays, I went to King's Cross station. If it was the first Sunday in September I took the train to St. Neots, where the

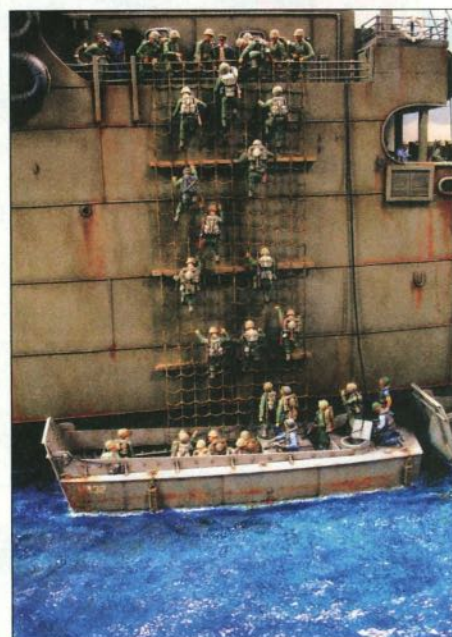
IPMS Brampton chapter held its annual show. It was always a pleasant walk through a beautiful English town. In England, a scale model show is more about displaying the work of club group builds and special interest groups, not the intense individual competition found here in the U.S. As in the U.S., the model shows I went to featured vendors. The one I remember best was a man who stocked thousands of decals in trays borrowed from the Royal Mail. I would tell him I wanted decals for an unknown variant of some obscure between-the-wars aircraft, and he'd pull decals for it in seconds.

On other Sundays, my destination was Cambridgeshire and the Imperial War Museum in Duxford. As a founding member of the American Air Museum in Duxford, I was admitted free! I enjoyed visiting the AAM I had helped build. On air show days, the half-mile walk from the gate was lined with vendors of model kits, reference books, and militaria of every description. The weekend trips were always a great experience!

— Jeffrey Nase
Maple Shade, N.J.

FSM online

As an avid reader of *FineScale Modeler* for almost 10 years, I have to congratulate the staff on the current mixed format of the magazine in which more pictures and content are offered on FineScale.com as a bonus to the magazine. I love being able to see more photographs and content online.

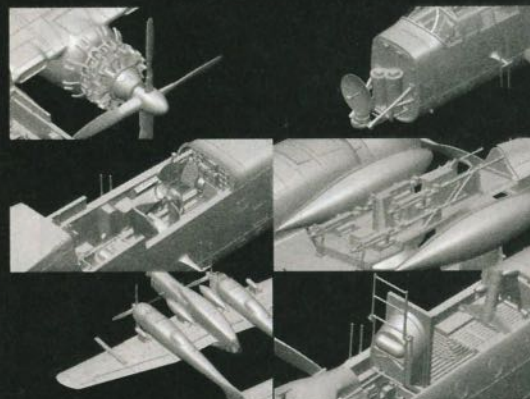


Featured in the September 2011 issue, Lewis Pruneau modeled a World War II Pacific assault using a scratchbuilt troop transport, custom-made photoetched-metal nets, Italeri landing craft, a Celluclay ocean, and more than 200 Verlinden figures. Photo by François Verlinden.

Also, such awesome projects as Lewis Pruneau's diorama, showcased in the September 2011 issue, should get more pictures on the website. I would easily pay top dollar for more photos.

Keep up the great work!
— Nikos Panagiotidis
Athens, Greece

YES! This is the one Everyone is talking about!!! 1/48 WWII U.S. **NORTHROP P-61 "BLACK WIDOW"**



Distributed By:

DRAGON USA
www.dragonmodelsusa.com

DRAGON MODELS USA - P: (626) 968-0322 - F: (626) 968-0234
1315 John Reed Court, City of Industry, CA 91745

Slowing down

I read with pleasure the April 2011 Editor's Page in which Editor Matthew Usher talks about modeling with his young son.

Recently, I was busy painting a model when my almost-8-year-old son, Sergio, came and told me he was bored. I remembered on rainy afternoons when I was a boy that we would build lots of things with paper and glue. I set the model aside and took out construction paper, markers, and white glue.

Then, Sergio and I made a funicular together and set it up in our garden. We put passengers inside and had lots of fun making it go up and down. By the time we grew tired of playing and the evening came, Sergio hugged me and, with a kiss, said, "That was fun, Daddy. Thank you." It brought back memories of when my father and I built paper planes together.

What can be more precious than spending valuable time with your children? The hobby gives me something to look forward to, and I am happy I can share it with my family.

— *Patricio A. González*
Arequipa, Peru

Reviewed reviews

I really enjoy reading the Workbench Reviews in each issue. The reviews are informative and extremely helpful in deciding what to build next. I would like to see "hours building" in the legend box. I think knowing how long it takes to build the model is very useful.

Thank you for the great reviews, and keep up the good work.

— *David Gray*
Lakewood, Calif.

Correction

Although we properly identified Robert Pollak of Longview, Texas, and his HobbyBoss 1/48 scale Avenger Mk. I in the September 2011 Reader Gallery, we misidentified him elsewhere in the caption. His first name is still *Robert*. **FSM**

Let us know what you think!

E-mail your comments, suggestions, corrections, and additional views on FSM to editor@FineScale.com, or visit FineScale.com and click on "Contribute to FSM." You can also mail typed or hand-printed letters to the address on Page 6.

When You Need To DEPLOY FAST



REAL-TIME INVENTORY

If We List It
WE STOCK IT!

IN STOCK
To Us Means
WE HAVE IT IN OUR
WAREHOUSE!

We Ship In
ONE BUSINESS DAY
OR LESS!

Visit Us *TODAY!*

ESTABLISHED 2004

Sprue
Brothers
Models LLC

spruebrothers.com

Morning Sunshine Models

1/1250
Scale Model
Ships and
Accessories



Morning Sunshine Models (MSM) is the largest retailer of 1/1250 ship models and accessories in the US. We carry over sixty different lines. In April we moved to a new web site www.MSMships.com to improve our customer's shopping experience. We accept major credit cards, PayPal, checks and money orders. If you prefer, you can call us at **717-791-9417**

www.MSMShips.com

Super Detail Your SciFi Projects

Photoetch, resin, & multimedia aftermarket accessories for SciFi model kits.

2001, BSG, LIS, Trek, VttBotS, & many other subjects.



PGMS
ParaGrafix™
Modeling Systems

www.paragrafix.biz

Cleared for takeoff!

Subscribe to *FineScale Modeler* today!

In each issue of *FineScale Modeler*, you'll find:

- Clear, how-to features on model assembly and finishing written by experts
- Reviews of the hottest model kits and products
- Tips and techniques for assembling, painting, and finishing
- Inspiring photos of readers' models



Visit www.FineScale.com

FineScale
Modeler
MAGAZINE



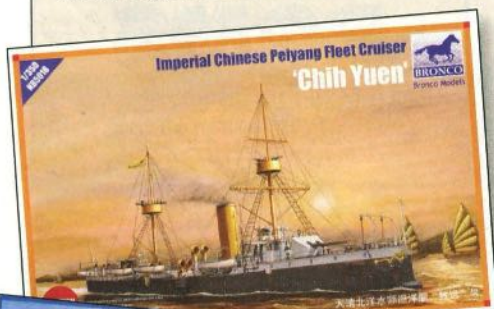
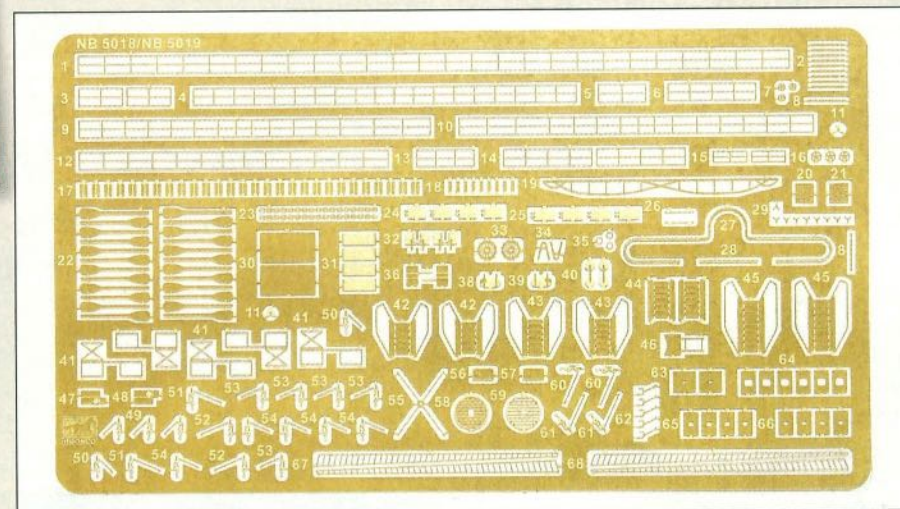
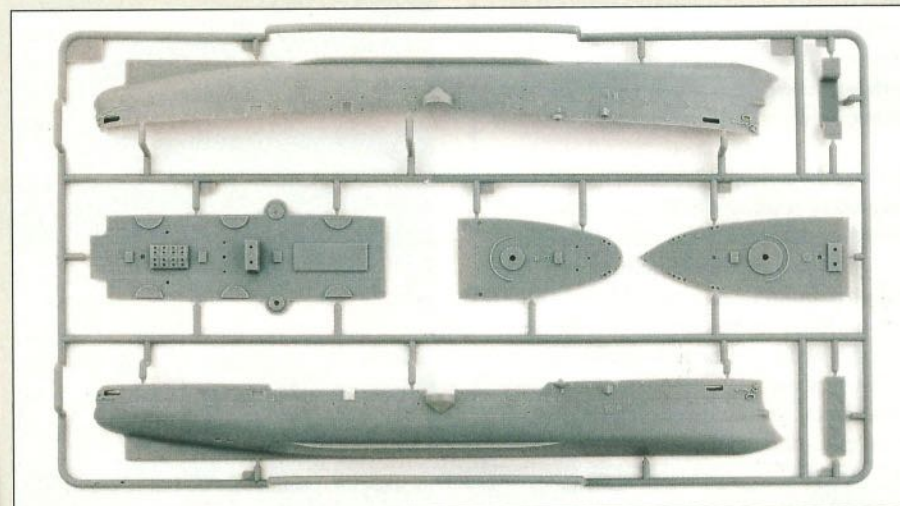
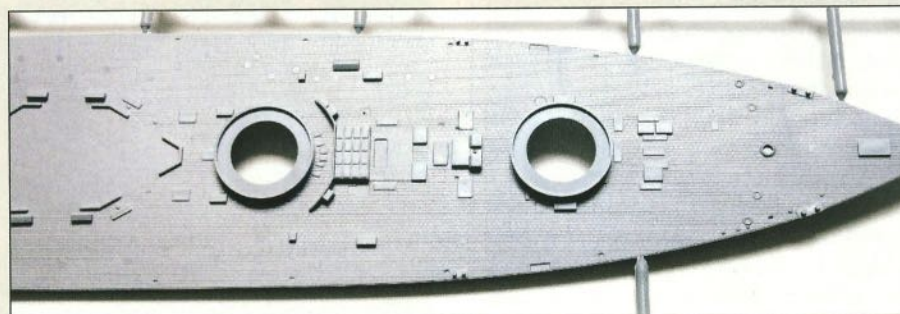
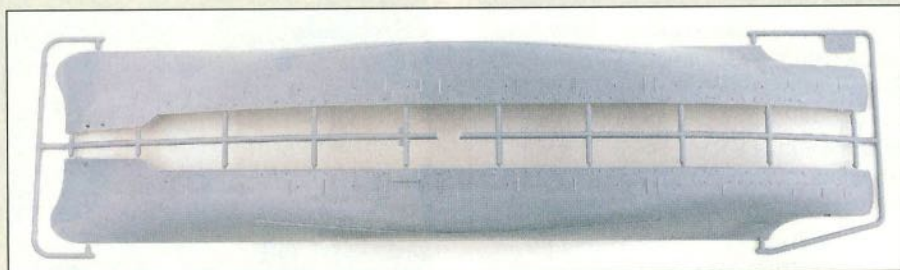
Ship kits mark transition of eras

I've always been fascinated by the naval architecture of the decades on either side of the end of the 19th century. Bigger and bigger guns were mounted on steel-hulled ships that still evoked the age of sail. Long neglected by kit makers, this period has recently garnered a lot of attention in new releases.

Bronco Models has kitted several ships of the imperial Chinese navy of the 1880s in 1/350 scale, including two turret ships (battleships) and two Peiyang fleet cruisers. *FSM* received the cruiser *Chih Yuen* (kit No. NB5018, \$57), and it looks terrific. Molded in gray plastic, the parts have fine raised and recessed detail. A fret of photoetched brass supplies railings, stairs, even oars for the ship's boats.

With the release of the 1/30 scale HMS *Dreadnought* (No. 9039, \$94.95), Zvezda gives modelers a chance to build the first true battleship. The gray plastic parts exhibit fine detail, and the relatively uncomplicated superstructure should make this an easy build. No photoetched metal is included, but I suspect the aftermarket world will quickly fill the void.

Both kits are distributed in the U.S. by Dragon Models USA, 626-968-0322, www.dragonmodelsusa.com.



Trumpeter enters crowded Panzer 38(t) kit market

A Czech design used extensively by the Wehrmacht, the PzKpfw 38(t) has always been popular with modelers and manufacturers. Now comes Trumpeter with a kit of the Ausf E/F version of the light tank (No. 01577).

Molded in tan plastic, the parts have fine recessed panel lines and petite raised bolts and other details. The hull sides are molded with the underside, simplifying alignment. The main gun is a sin-



gle-piece with a hollow barrel, as are the machine guns. There is no internal detail except for gun breeches and seats in the turret. The only options are different styles of engine

hatches. Link-and-length plastic tracks finish the tank.

A small photoetched-metal fret provides intake grilles and a couple of detail parts. Decals provide markings for an overall gray tank and one camouflaged with green and red-brown over dark yellow.

Trumpeter's well-detailed 38(t) looks like a simple build and should appeal to beginners as well as superdetailers.

Distributed in the U.S. by Stevens International, the kit costs \$37.95.

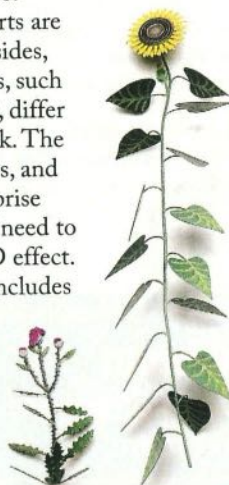


Flora (and fauna) by Eduard

Over the past few months, Eduard has been building a collection of pre-painted, photoetched-metal 1/35 scale plants. These are nice products that should add a splash of color and realism to dioramas.

I've seen the wildflowers (No. 36152), ferns (No. 36160), ivy berry (No. 36161), sunflowers (No. 36168), and grapevine (No. 36170). These parts are painted on both sides, and in some cases, such as the sunflowers, differ from front to back. The sunflowers, grapes, and wildflowers comprise several parts and need to be folded for 3-D effect. The latter even includes butterflies.

Each set costs \$26.95 and is available from Eduard, www.eduard.cz.



Naval centennial schemes and egg-plane decals

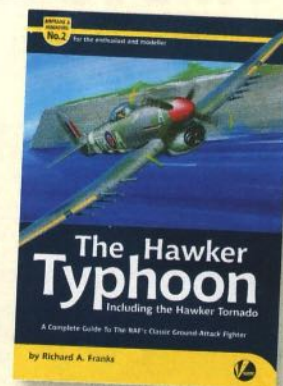
Twobobs never fails to impress with the quality of its decals. But the most-recent releases caught my eye because of their timeliness — five sets of markings for aircraft wearing some of the retro schemes developed for modern fighters to mark this year's centennial of U.S. naval aviation.

Each sheet includes markings for two aircraft: No. 48-228: an overall gloss sea blue F-18C with joint VBF-17 and VFA-106 codes and the name of USS *Hornet* (CV-12), and a gray F-18E with markings from a VA-106 Skyhawk aboard the USS *Forrestal*; No. 48-229: VAQ-129, an EA-6B in early World War II intermediate blue over light ghost gray with round national insignia and the red center, and a tri-color (dark blue, medium blue, and light gray) EA-18G Growler; No. 48-230: two F/A-18Cs in WWII style camo, one three-color (dark blue, intermediate blue, and white) from VFA-122, the other overall dark sea blue from VFC-12; No. 48-231: two F-18s in Cold War schemes, one from VX-31, gray over white with bright orange for Naval Air Station China Lake (there are bonus decals for an A-4C in the same scheme) and the other from VFA-201 in overall sea blue gloss with an orange band; and No. 48-232: two F/A-18Fs from VX-9. Similar sheets are also available in 1/72 scale. Each set costs \$14.

On a fun note, two sets mark Hasegawa's F-16 egg plane. These well-researched sets have markings for 17 aggressors (No. EP-001) and 16 U.S. Air Force Fighting Falcons (No. EP-002). Each set is available from Twobobs, 661-256-1396, www.twobobs.net, for \$13.



BOOKSHELF



Franks' book takes you into the eye of the Typhoon

Conceived as an interceptor to replace the Hurricane in Royal Air Force service, the Hawker Typhoon excelled instead as a ground-attack aircraft. The brutish airplane gets due regard in Richard A. Franks' *The Hawker Typhoon* (Valiant Wings, ISBN 978-0-9567198-1-2).

Subtitled *A Complete Guide to the RAF's Classic Ground-Attack Fighter*, the book lays out the differences between each of the versions and production batches, including each of the prototype airframes, using text, photos, and line drawings. There is also a chapter on camouflage and markings, bolstered by a section of color profiles.

In Chapter 7, Franks describes and critiques Typhoon kits in 1/72, 1/48, and 1/32 scales. Chapter 8 features builds of two 1/72, one 1/48, and 1/32 scale models.

After a section of drawings noting the differences between versions with callouts, the book finishes with walkaround photos, manual drawings, and a foldout of 1/48 scale drawings.

The Hawker Typhoon is available from Valiant, www.valiant-wings.co.uk, for £17.95 (about \$30) plus shipping.

New Products

Compiled by Monica Freitag



AIRCRAFT

1/32 SCALE KITS



BAe Hawk T.1A, No. 04284, \$36.72. Royal Air Force Red Arrows. Look for a detailed review in an upcoming issue of FSM. From Revell AG/Revell Germany.



Heinkel He 111 P-1, No. 04696, \$110.22. Look for a detailed review in an upcoming issue of FSM. From Revell AG/Revell Germany.
Spitfire Mk.XIVc RAF fighter, No. PCM32015, \$69.95. From Pacific Coast Models, Inc.

1/32 DETAIL SETS

Bf 109 landing gear (for Trumpeter), No. 32053, \$16.95. From Scale Aircraft Conversions.



US aircraft weapons (Missile), No. 03306, \$33.95. From Trumpeter, available from Stevens International.

1/32 DECAL SETS

Luftwaffe national insignia, No. KW132024, \$16.70. Also available in 1/48 and 1/72. From Kits-World.
Spitfire Mk.IXc and Mk.VIII Tolly Hello and Pauline, No. KW132023, \$16.70. Also available in 1/48. From Kits-World.



P-61 Black Widow Little Audrey and Hel'n Back, No. KW132019, \$16.70. From Kits-World.

P-61 Black Widow Nightie Mission and Moon Happy, No. KW132018, \$16.70. From Kits-World.



P-61 Black Widow The Virgin Widow and Husslin' Hussy, No. KW132020, \$16.70. From Kits-World.

1/48 SCALE KITS



Beechcraft GB-2 Staggerwing (Traveller Mk.II), No. 447, \$52.99. From Roden.

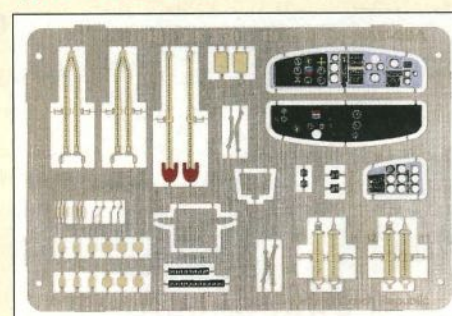


Northrop P-61A Black Widow, No. L4802, \$89.95. Look for a detailed review in an upcoming issue of FSM. From Great Wall Hobby, available from Dragon Models USA Inc.



Curtiss Mohawk IV, No. MH148001, \$65. Includes photoetch and decals. From MustHave!.

1/48 DETAIL SETS



PC-6/AU-23A S.A. (for Roden), No. FE550, \$19.95. Zoom set. Self adhesive. From Eduard and Associates.

P-51 Mustang landing gear (for Tamiya), No. 48142, \$12.95. From Scale Aircraft Conversions.

F-84F Thunderstreak landing gear, No. 48143, \$16.95. For Monogram, Revell, REdux, Kinetic, and Italeri. From Scale Aircraft Conversions.

PC-6/AU-23A landing gear (for Roden), No. 48144, \$14.95. From Scale Aircraft Conversions.

F4U Corsair landing gear and wing fold supports (for Tamiya), No. 48145, \$16.95. From Scale Aircraft Conversions.

Super Etendard, Etendard IVP landing gear (for Heller), No. 48146, \$16.95. From Scale Aircraft Conversions.

1/48 DECAL SETS

F/A-18C/E Centennial of Naval Aviation VFA-106, No. 48-228, \$13. From Twobobs Aviation Graphics.

www.FineScale.com

featuring reviews, product information,
photo galleries, and more!



F/A-18F Centennial of Naval Aviation VX-9, No. 48-232, \$13. From Twobobs Aviation Graphics.



F/A-18A/C Centennial of Naval Aviation VFA-204 VX31, No. 48-231, \$13. From Twobobs Aviation Graphics.

EA-6B/EA-18G Centennial of Naval Aviation VAQ-129, No. 48-229, \$13. From Twobobs Aviation Graphics.

F/A-18C Centennial of Naval Aviation VFA-122 VFC-12, No. 48-230, \$13. From Twobobs Aviation Graphics.

F-16C Shark Attack, No. 48-226, \$13. From Twobobs Aviation Graphics.



F/A-18C Snakes and Dragons, No. 48-227, \$13. From Twobobs Aviation Graphics.

1/72 SCALE KITS



BAe Harrier GR.7A/GR.9A, No. A04050, \$22. Look for a detailed review in an upcoming issue of FSM. From Airfix.



Gloster Meteor F.1, No. 5084, \$24.95. Golden Wings Series. From Cyber-hobby.com, available from Dragon Models USA Inc.

Manufacturer Directory

Aero Research Co.
6468 Valley Wood Dr.
Reno, NV 89523-1263
www.AeroResearchCDs.com

Airfix
Hornby Hobbies Ltd.
Westwood Margate
Kent, England CT9 4JX
44-1843-233500
www.airfix.com

Andrea Depot USA Inc.
1822 Holly Road, Suite 110
Corpus Christi, TX 78417
361-334-1625
www.andreadepotusa.com

Dragon Models USA Inc.
1315 John Reed Ct.
City of Industry, CA 91745
626-968-0322
www.dragonmodelsusa.com

Eduard and Associates
Obrnice 170
435 21, Czech Republic
420-47-611-8259
www.eduard.com

Flagship Models
2204 Summer Way Ln.
Edmond, OK 73013-2815
405-330-6525
flagshipmodels.com

Great Planes Model Distributors
P.O. Box 9021
Champaign, IL 61826-9021
217-398-6300
www.greatplanes.com

Kits-World
Badgers Lodge, Eastwood Rise
Leigh-on-Sea, Essex
England SS9 5BU
44-01702-420458
www.kitsworld.co.uk

MIG Productions
C/Merkatondoa 18, Nave 16B
31200 Estella (Navarra), Spain
34-948-555-772
www.migproductions.com

Model Rectifier Corporation
80 Newfield Avenue
P.O. Box 6312
Edison, NJ 08837
732-225-2100
www.modelrectifier.com

MusiHave!
MITECH Sarl. 1115 route
d'Oyonnax, 01100 Geovresisset,
France
0033-66082-6353

Noy's Miniatures
90 Shderot Ben Gurion St.
Tel Aviv, 64515 Israel
972-50-5328587

Osprey Publishing
Elms Court, Chapel Way
Botley, Oxford
England OX2 9LP
44-1865 727022
www.ospreypublishing.com

Revell AG/Revell Germany
Henschelstrabe 20-30
D-32257, Bünde, Germany
49-5223-965-223
www.revell.eu

Roden
7a Nevskia Str., of. 35
Kiev, Ukraine 03062
380 (44) 4565404
www.roden.eu

Scale Aircraft Conversions
3795 Shady Hill Dr.
Dallas, TX 75229
214-477-7163
scaleaircraftconversions.com

Specialty Press
39966 Grand Ave.
North Branch, MN 55056
651-277-1400
www.specialtypress.com

Stevens International
P.O. Box 126
706 N. White Horse Pike
Magnolia, NJ 08049
856-435-1555

Twobobs Aviation Graphics
4220 Knox Ave.
Rosamond, CA 93560
661-256-1396
www.twobobs.net

Valiant Wings Publishing
8 West Grove, Bedford
United Kingdom MK40 4BT
44-012340273434
www.valiant-wings.co.uk

Correction:
Video Workbench
P.O. Box 237
Johnson Creek, WI 53038
www.videoworkbench.com
(listed incorrectly in the September 2011 issue of FSM)

New Products



F-4B/N Phantom II, No. 01566, \$41.95. From Hasegawa, available from Hasegawa/Great Planes Model Distributors.

1/72 DETAIL SETS



NATO Tarmac, No. NM72004 \$4.95; 1/48 NM48004 \$6.75. Tarmac prints printed on quality card stock. From Noy's Miniatures, available from Stevens International.

1/144 SCALE KITS



F/A-18E Super Hornet, No. 03997, \$9.40. From Revell AG/Revell Germany.



J-20 PLA stealth fighter, No. 4625, \$9.95. From Dragon, available from Dragon Models USA Inc.

1/200 SCALE KITS



Junkers Ju 52 German transport plane 1932-45, No. 6139, \$4.95. From Zvezda, available from Dragon Models USA Inc.

MISCELLANEOUS DECAL SETS

Multiscale (walkways, lines, corners and stenciling), No. KW1724322, \$16.70. From Kits-World.

F-16 Aggressive Eggs, No. EP-001, \$13. Hasegawa F-16 Egg Planes. From Twobobs Aviation Graphics.

F-16 Falcon Eggs, No. EP-002, \$13. From Twobobs Aviation Graphics.

ARMOR

1/35 SCALE KITS



SdKfz 2 Kettenkrad (late production) and 3.7cm PaK 36 with crew, No. 6446, \$27.95. 1939-1945 series. From Dragon, available from Dragon Models USA Inc.

German PzKpfw II Ausf D1 (SdKfz.121), No. CB35061, \$43.95. Look for a detailed review in an upcoming issue of FSM. From Bronco Models, available from Dragon Models USA Inc.

M-ATV MRAP No. PH35001, \$45.95. Look for a detailed review in an upcoming issue of FSM. From Panda Hobby, available from Pacific Coast Models, Inc.

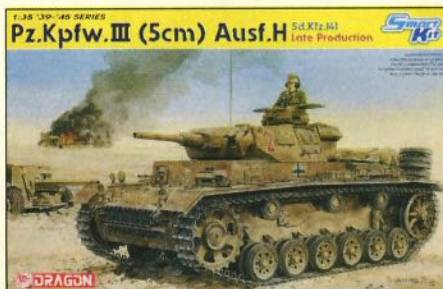
British 17/25-pdr Anti-Tank Gun 'Pheasant'



British 17/25-pounder anti-tank gun "Pheasant," No. CB35071, \$29.95. From Bronco Models, available from Dragon Models USA Inc.



German sWS with 3.7cm FlaK 43 anti-aircraft gun, No. L3521, \$54.95. From Great Wall Hobby, available from Dragon Models USA Inc.



PzKpfw III (5cm) Aus H SdKfz 141 (late production), No. 6642, \$47.95. Smart Kit. From Dragon, available from Dragon Models USA Inc.



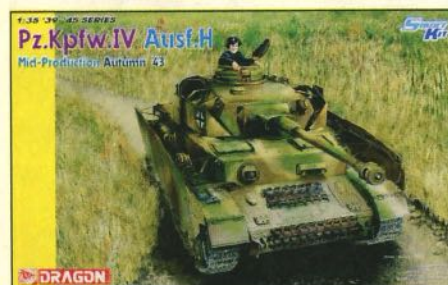
Russian BTR-60P APC, No. 01542, \$49.95. Look for a detailed review in an upcoming issue of FSM. From Trumpeter, available from Stevens International.



Sherman T54E1 workable track link set, No. AB3546, \$14.95. From Bronco Models, available from Dragon Models USA Inc.



German PzKpfw 38(t) Ausf. E/F, No. 01577, \$37.95. From Trumpeter, available from Stevens International.



PzKpfw IV Ausf. H (mid-production autumn 1943), No. 6526, \$49.95. 1939-1945 series. Smart Kit. From Dragon, available from Stevens International.



GAZ-69 anti-tank vehicle 2P26 "Baby Carriage," No. CB35099, \$39.95. From Bronco Models, available from Dragon Models USA Inc.



M4A3 (75)W ETO, No. 6698, \$47.95. Smart Kit. 1939-1945 series. From Dragon, available from Dragon Models USA Inc.



Damaged modern pickup Hilux "Veteran Warrior," No. MP35-292, \$90. From MIG Productions.



German WWII Maybach HL42 TRKMS engine, No. L3522, \$11.95. From Great Wall Hobby, available from Dragon Models USA Inc.



German military car, Typ. 170 V, Tourenwagen, 4 Türen, No. MB35100, \$49.95. From Master Box Ltd., available from Dragon Models USA Inc.

1/35 DETAIL SETS



Ford V3000S wheels set (for ICM), No. MP35-103, \$25. Resin. From MIG Productions. **Universal ammo set for all brands,** No. L35A064, \$12.95. 6 round, 3.7cm ammo clip for WWII German 3.7cm FlaK 36/37. From Griffon Model, available from Dragon Models USA Inc.



Update set for WWII German vehicle mount 3.7cm FlaK 37 for Dragon, No. L35A084, \$21.95. Full set of gun shield include upper gunner's shield inside. From Griffon Model, available from Dragon Models USA Inc.



Engine compartment update set for WWII German armor for Dragon, No. L35A081, \$15.95. Driver's cab type SdKfz 7 series. From Griffon Models, available from Dragon Models USA Inc.

A description of our new-product announcement and review policies is available from Product News Coordinator, FSM, 21027 Crossroads Circle, P.O. Box 1612, Waukesha, WI 53187, 262-796-8776, fax 262-796-1383, or e-mail at newproducts@finescale.com. FineScale Modeler is not responsible for content of external sites linked through our site. Visit our website at www.FineScale.com.

New Products



WWII German Sdkfz. 7/2 3.7cm Flak 37 armor driver's cab version for Dragon, No. L35A033, \$49.95. Engine hood side panels and detailed vehicle mount 3.7cm Flak37 inside. From Griffon Models, available from Dragon Models USA Inc.

1/72 SCALE KITS



MunSdKfz 4/1, No. 722, \$19.99. From Roden.

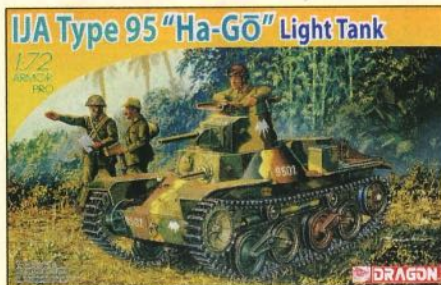


Opel 3.6-47 omnibus, No. 720, \$11.99. From Roden.

Soviet anti-tank team 1941-1943, No. 6135, \$4.95. From Zvezda, available from Dragon Models USA Inc.



Type 40 Heavy uniform personnel vehicle, No. 7378, \$17.50. Armor Pro. From Dragon, available from Dragon Models USA Inc.



IJA Type 95 "Ha-Go" light tank, No. 7394, \$14.50. Armor Pro. From Dragon, available from Dragon Models USA Inc.

1/100 SCALE KITS



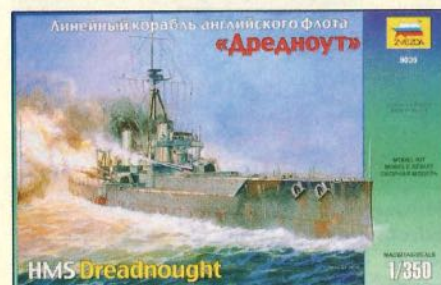
PzKpfw IV Ausf D German medium tank, No. 6151, \$4.95. From Zvezda, available from Dragon Models USA Inc.

SHIPS

1/200 SCALE KITS

Hermann Marwede search and rescue vessel, No. 05812, \$21.65. From Revell AG/Revell Germany.

1/350 SCALE KITS



HMS Dreadnought, No. 9039, \$84.95. Look for a detailed review in an upcoming issue of FSM. From Zvezda, available from Dragon Models USA Inc.

Imperial Chinese Peiyang fleet cruiser Chih Yuen, No. NB5018, \$48.95. From Bronco Models, available from Dragon Models USA Inc.

1/350 DETAIL SETS



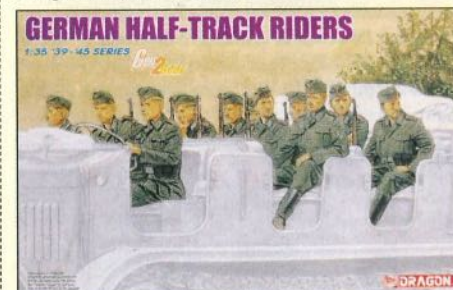
WWII USN barges I YF390 and YF959, No. R7004, \$16.95. From Lion Roar/Great Wall Hobby, from Dragon Models USA Inc.

MILITARY FIGURES

1/35 SCALE KITS



German paratroopers 1939-1942, No. 3628, \$19.95. From Zvezda, available from Dragon Models USA Inc..



German halftrack riders, No. 6671, \$14.95. 1939-1945 series. Gen2Gear. From Dragon, available from Dragon Models USA Inc.

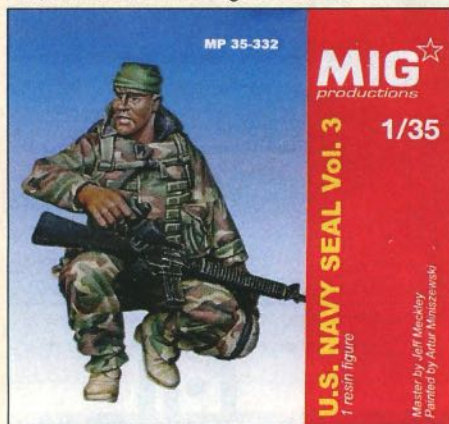
www.FineScale.com

FineScale Modeler magazine receives new products from a variety of manufacturers on a daily basis and we are now able to share all of them with you through our interactive exclusive FSM product database. Click on the Product News link at www.FineScale.com.



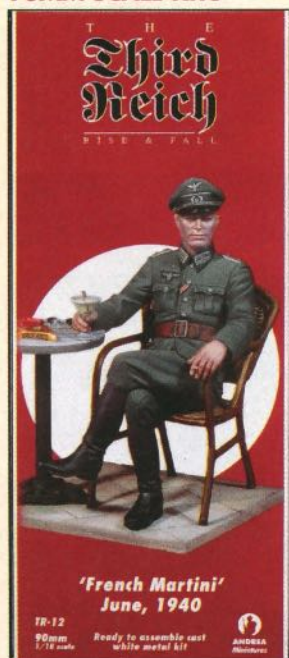
Hand-to-hand fight, British and German infantry. Battles in Northern Africa. WW I Era. Kit 1. MB3592

Hand-to-hand fight, British and German infantry — battles in northern Africa WWI era, No. MB3592, \$14.95. From Master Box Ltd., available from Dragon Models USA Inc.



U.S. Navy SEAL Vol. 3, No. MP35-332, \$17.25. Resin. From MIG Productions.

90MM SCALE KITS



The Third Reich Rise & Fall — French Martini June 1940, No. TR-12, \$92. From Andrea Miniatures, available from Andrea Depot USA Inc.

AUTOS

1/24 SCALE KITS

1970 Ford Mustang Boss 302, No. 85-4943, \$23.96. Motor City Muscle. From Revell.
1970 Plymouth Superbird, No. 85-4921, \$23.96. Street Burner. From Revell.

1/25 SCALE KITS

1932 Ford 3-window coupe street rod, No. 85-0887, \$23.56. Classic Cruiser. From Revell.

MISCELLANEOUS

OTHER DETAIL SETS



Moon and war craters (2 pack), No. 97459, \$5.95. No scale. From JTT Scenery Products, available from Model Rectifier Corporation.

Field stone (2 pack), No. PS-1043, \$5.95. From JTT Scenery Products, available from Model Rectifier Corporation.

ELECTRONIC MEDIA

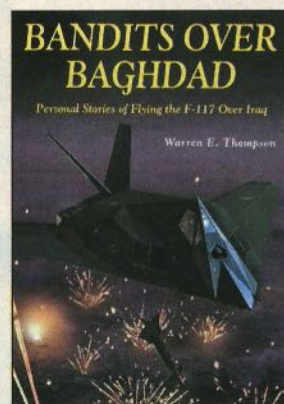
Building Wood Ship Models, No. FMCD-16, \$12.95. Step by step modeler's techniques for constructing wood model of the "Ranger." From Flagship Models.

Centennial of Naval Aviation Reference, \$10. From Twobobs Aviation Graphics.

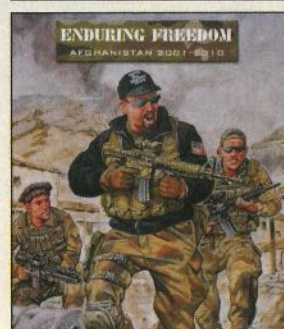


Jetliner Collection No. 2, No. 2007, \$12.95. From Aero Research Co.

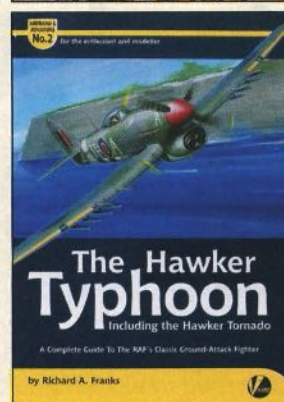
BOOKSHELF



Bandits Over Baghdad - Personal Stories of Flying the F-117 Over Iraq, \$24.95, by Warren E. Thompson, soft cover, 201 pages, all black-and-white photos, ISBN: 978-1-58007-188-8. From Specialty Press.



Enduring Freedom Afghanistan 2001-2010, \$24.95, soft cover, 162 pages, all color photos, ISBN: 978-1-84908-532-8. From Osprey Publishing.



The Hawker Typhoon - A Complete Guide to the RAF's Classic Ground-Attack Fighter, \$30, by Richard A. Franks, soft cover, 128 pages, all color photos, some drawings black-and-white photos. From Valiant Wings Publishing.

PAINTS



German Armor tones, No. ABT300, \$18.95 each. 502 Abteilung oil set. Also available in Urban Diorama Colors, ABT310 and Vehicle Weathering and Effects, ABT320. From MIG Productions.



Mr. Surfacers is a primer, filler, and more

Tips for using this remarkable stuff

BY AARON SKINNER

Many *FSM* authors use Mr. Surfacers to fill gaps, prepare surfaces, or add texture. Once relatively hard to find in the United States, this seeming cure-all for modeling problems is now widely available. But just what is this miraculous stuff, and how do you use it?

I've seen Mr. Surfacers described as thick paint or thin putty. Neither description is entirely incorrect. Gunze describes Mr. Surfacers as an acrylic resin agent with an organic solvent base. For modelers, the best way to understand it is as a lacquer-based solution with granules. There are three grades — 500, 1000, and 1200. Like sandpaper, the lower the number, the coarser the grains (and the better it fills larger gaps). Pick the grade you need for the job you are doing.

Here are some tips for using Mr. Surfacers.

To add texture



1

Many tanks feature rough-cast armor on turrets or hulls that is either not molded on the kit parts or gets damaged during construction. Use an old paintbrush with the bristles trimmed short to apply Mr. Surfacers 500 to the area to be textured, then stipple it as it begins to dry.



2

Light sanding refines the texture and blends it with the molded surface detail.

As a filler



1 Mr. Surfacer 500 is thick straight from the bottle, ideal for filling small holes and gaps.



2 The best way to fill gaps is to brush Mr. Surfacer 500 into the hole with an old paintbrush or even a cotton swab. It's particularly useful in tight spaces that are hard to sand.



3 It's easy to sand. Keep each application thin so it dries thoroughly. If the hole is large, apply several layers rather than trying to fill it all at once. That way, you can be sure it is dry when you sand.



4 Rubbing alcohol is an even more elegant method of removing excess Mr. Surfacer and smoothing joints. Allow the filler to dry for an hour or so, then wet a cotton swab with alcohol.



5 Rub the swab along the filled seam. The alcohol will gradually soften the Mr. Surfacer, and rubbing will remove it from the outer edges yet leave it in the gap. This is particularly useful in tight spaces or areas where you want to leave the panel line visible.

As a primer



1 Applied either from a spray can or an airbrush, Mr. Surfacer creates a velvety smooth finish that makes an ideal base for painting. Plus, thicker Mr. Surfacer fills fine lines and scratches. It also does a good job of covering darker colors, like the red oxide primer on this Revell Monte Carlo.



3 After the initial coat, sand the surface. Note how Mr. Surfacer is filling the voids in the orange-peel finish of the primer. Cured Mr. Surfacer stands up well to sanding and feathers out well at edges and corners.



2 Mr. Surfacer 1000 and 1200 can be airbrushed. Mix them with 30 percent Gunze Mr. Color Thinner. You can try lacquer thinner but test it first. Don't overthin Mr. Surfacer or it will produce a spider web-like effect.



4 A second coat of Mr. Surfacer covers sanding blemishes. Gunze recommends sanding the surface with 1000-grit wet-or-dry sandpaper before painting the model. **FSM**

SCALE MODELING GLOSSARY

Browse through our updated list of modeling terms

Whether you're new to scale modeling or have returned to the hobby after a hiatus, you're bound to stumble upon unfamiliar jargon. *FSM*'s here to help. Last September, we launched our online Scale Modeler's Glossary and asked you to submit your own modeling terms. Here are a few you submitted and other popular modeling terms. Visit www.FineScale.com to browse our complete online glossary and submit your own terms.



Fraser Gray used color modulation to enhance a monochromatic scheme on Italeri's 1/35 scale IS-2, featured in the September 2011 issue.

COLOR MODULATION

A fool-the-eye technique that simulates natural lighting effects with highlights and shadows that bring out details on a model and give it a realistic look. Because this is a permanent color correction, it locks the lighting and shade orientation regardless of the actual ambient light.

—Tom Zmudzinski
Fort Washington, Md.

ACCURIZE

To improve the accuracy of a piece.

AFTERMARKET

Parts sold independently of the kit to replace or enhance what's included in the kit. These can include decals, detail parts, weapons, etc.

ADVANCED MODELER SYNDROME (AMS)

The need or desire to superdetail every model, often at the expense of completing any.

ARTIST'S OIL

Fine-art paint; slow drying and easily blended, it's often used for figure painting and washes.

BACKDATE

Converting a model to represent an earlier version of the subject.

BOX SCALE

A model in a nonstandard scale.

Early kits were scaled to fit existing boxes.

BUSY UP

Adding detail to an area of model lacking it
—Corey Reece
Olivehurst, Calif.

CONSTANT SCALE

Models produced in the standard, consistent scales (1/35, 1/72, etc.).

CONVERSION

A model that has been modified to represent a different subject or variant

DECAL

Thin, printed transfers used for lettering, markings, and national insignia. Their adhesive is activated by water, so they're sometimes referred to as "water-slide" decals.

DIORAMA

A miniature scene, often including vehicles and figures, in a natural setting.

DRY-FIT

Test-fitting parts for alignment before cementing them together.

DRY-BRUSHING

Using a nearly dry paintbrush to highlight raised detail and edges, usually with a lighter color.

EJECTOR-PIN MARK

A circular depression in injection-molded plastic parts. Caused by the molding process, these flaws often must be filled and removed.

GREEBLIES

Inaccurate, odd parts used to fill in areas where accurate detail is not provided, making empty space look busy; very common in science fiction subjects. See *gizmolology*.

—Jim James
Orlando, Fla.

INDIVIDUAL-LINK TRACKS

Treads for tanks and other tracked vehicles in which each



Dan Jayne spent five months building this cutaway from Academy's 1/32 scale F/A-18C Hornet. See more of Dan's model in the September 2009 issue.

CUTAWAY

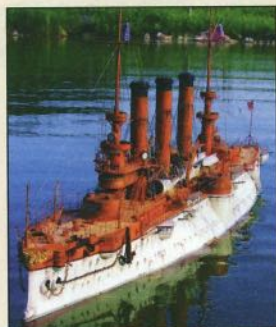
A model where the skin has been "cut away" so interior details can be viewed.

track is made up of individual links glued or pinned together as on the real vehicles. Once an aftermarket purchase; recently, more kits have this type of track.

—Mike Thompson
Ames, Iowa

KITBASH

To combine parts from different kits.



Using gizmology, Tim M. Quinlan II detailed his USS Brooklyn (featured in the July 2010 issue) with Christmas tinsel, piano wire, and snaps.

GIZMOLOGY

Using or creating detail parts for models or small models themselves from unlikely sources, such as other model kits, toys, household items, and scrap.

—Mike Thompson
Ames, Iowa

LIQUID SPRUE

Sprue from a model kit cut into small pieces and dissolved in liquid styrene cement. Used as a filler.

—Dave Eyles
Weybridge, Surrey,
United Kingdom

PHOTOETCHED METAL TOOL

While this refers mostly to small folding tools, a photoetched metal tool can be anything in a modeler's arsenal dedicated to cutting, filing, annealing, folding, rolling, or shaping photoetched-metal parts.

—Tom Zmudzinski
Fort Washington, Md.

REVERSE WASH

A technique to create a wash effect on raised panel lines by painting the lines the desired color, usually black or dark gray, then painting a protective clear coat. Once the final color coat is applied, the panel lines are lightly sanded, revealing the darker color underneath.

—Harvey Baker
Jemison, Ala.

PIN MARKS

Impressions left in plastic by the pins that eject parts from a mold.

SLIDE MOLD

Injection molds that use more than the traditional two-part

top and bottom steel molds. In a slide mold, additional mold pieces can be placed into the sides of the main mold halves, allowing for undercuts and even hollow parts impossible with two-part molds.

—Mark Wilson
Alexandria, Va.

SILVERING

When air is trapped between a decal and the model surface.

SUPERDETAILED

A model that has been detailed (often with many additional parts) to the highest standards of detail and accuracy.

UNOBTAINIUM

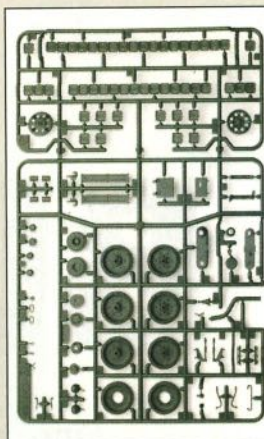
A part (usually aftermarket) that looked good on another modeler's work but unfortunately is no longer available for your model.

—Tom Zmudzinski
Fort Washington, Md.

WASH

Weathering process: Highly diluted paint is flowed into small details, such as recessed or raised panel lines, rivets, etc., to color them or simulate accumulated grime and dirt.

—Hoi Sing Chan Tang
Moncton, New Brunswick,
Canada



SPRUE

The cylindrical plastic "tree" that parts are attached to inside a kit. These are the result of channels that feed molten plastic into part cavities in a mold.

ZIMMERIT

Nonmetallic paste applied to German armor during World War II to thwart magnetic mines. **FSM**

 www.FineScale.com

Look up more scale modeling terms and submit your own to our online modeling glossary.



Karl Logan, known for his heavily-weathered armor, used a bunch of different weathering techniques to wear out Dragon's 1/35 scale SdKfz 251/17.

WEATHER

To simulate the appearance of wear and tear (battle damage, exposure to the elements, age) on a model.

Start BUILDING!

FineScale Modeler's guide to modeling techniques, tools,
and tips

BY THE FSM STAFF

Welcome to *FineScale Modeler's* guide to getting started in the hobby. Although *FineScale* is read all over the world, here in North America we're headed into fall –

that means cooler temperatures, shorter days, and more time to spend inside building models. That's why we included this guide in the November issue. It's a handy collection of how-to information, tips, techniques, and trivia we hope will inspire you to tackle a new project (or finish one that's been collecting dust).

Enjoy this collection of tips and techniques, and if you have ideas for future installments, drop us a line and let us know!



■ The 10 (or so) tools you need to get started

Need to stock your toolbox from scratch? Here are the top ten tools you'll need to get started. As your skills increase (or as you specialize in one genre of modeling) you can tailor your selection of tools and supplies.



1. Hobby knife. Keep a small collection of fresh blades on hand, along with a small “variety pack” of specialty blades.

2. Sprue cutter. A good quality cutter makes trimming parts much easier.

3. Glue. Start with standard tube glue and white glue.

4. Toothpicks. The inexpensive, disposable, tool of a thousand uses. Ideal for everything from stirring paint to applying glue.

5. Wet-or-dry sandpaper and sanding sticks. These will help you smooth imperfections and eliminate seams between parts.

6. Pin vise and drill bits. The best way to open up exhaust stacks and mounting holes.

7. Paint brushes. (Left.) A good set should include a fine-point detail brush and a variety of larger brushes. As your brushes wear out, save them for less-accurate work such as applying washes, pastel

powder, and weathering pigments.

8. Paint. Start with a collection of standard colors and expand from there.

9. Files. Flat, round, large and small. These help tackle serious fit problems.

10. Masking tape. Use a good-quality, low-tack painter’s tape. Look for it at hardware and home-improvement stores.

11. Tweezers. Mandatory – you’re going to be dealing with lots of small parts!

■ Which glue should I use?

There isn't a single one-size-fits-all glue for scale modeling. Here's a list of the best adhesives to have on hand, as well as a description of their most common applications.



1. Solvent-based glue: Time-honored tube glue or liquid cement. Solvent-based glues melt the mating surfaces of plastic parts to weld them together to produce extremely strong bonds. Solvent-based glues should be used sparingly to avoid damaging the plastic parts. Non-toxic tube glue is available for younger modelers.

2. Super glue: Available in several grades, from ultra-thin, ultra-fast setting to thick, gap-filling, slow-setting varieties. Good for general assembly and bonding

dissimilar materials. Always have a bottle of debonder within arm's reach. Super glue should not be used for clear or "chromed" plastic parts; the glue's vapors can fog their surface.

3. White glue: Ideal for attaching clear and chrome-plated parts. Can be thinned with water and applied with a fine paintbrush. Errors clean up with water.

4. Epoxy: Two-part adhesive consisting of a "resin" and a "hardener." Epoxy begins to cure when the two parts are mixed.

Different varieties cure at different rates, from minutes to hours, and the resulting bond is extremely strong. Ideal for joining dissimilar materials. Thicker epoxy putty can be used to fill gaps and can be used for sculpting.

5. Clear-part adhesive: Usually water-based and formulated specifically for use with clear parts. Usually thicker than standard white glue, this adhesive dries clear and can be used to simulate small windows, landing lights, and instrument-panel gauge faces.

■ Painting tips

The days of the tiny countertop paint rack at the hobby shop are long over. (That's a good thing, though – no more mixing paints labeled "Yellow" and "Green" in an attempt to arrive at "Dunkelgelb.") Visit any modern hobby shop and you'll undoubtedly find rack after rack (and brand after brand) of carefully formulated, carefully color-matched model paint in both bottles and spray cans.

If you're just getting started modeling, it's probably a good idea to start with one brand and/or type of paint. The folks at the hobby shop should be able to advise you as to what selection will work best for the type of modeling you're doing. As you get the hang of things, you can expand your arsenal of paints to include everything from acrylics, to enamels, to lacquers and everything in between. Here are some guidelines to help you tell things apart so you can get started properly.



Never thin paint in the bottle.

Unthinned paint will last a long time in a properly sealed bottle or tinlet. Adding thinner, however, will shorten its shelf life. Always mix paint and thinner in a separate (third) container, and dispose of any excess.

Don't mix different brands. Sure, you can use different brands of paint on your project, but don't mix colors between brands.



Shaken, or stirred? Generally, it's best to stir paints thoroughly before you use them. Shaking the paint bottle can introduce air bubbles into the mix, which can affect the final finish. Buy a big box of sturdy toothpicks or coffee stirrers to mix things up.

Use the recommended thinner.

While some modelers like to use their own concoctions to thin paint, your best bet is to use the thinner recommended by the paint manufacturer; usually it's listed on the paint bottle.

Test first. Unsure of how a particular paint will work? Will it match? Is the bottle too old? Is it the right sheen? If you have questions about a particular formulation of paint, always test it first. An empty section of the kit's parts tree is a great place to check.

Don't judge color in the bottle.

Some paints can change color dramatically as they cure. When in doubt, apply the paint to a test swatch (a leftover piece of parts tree or a scrap piece of white sheet styrene will work well) and let it cure for at least 48 hours. You'll have a textbook example of the paint's "final finish."

Apply paints in the proper order.

Model paints are available in a wide variety of formulations. Generally speaking, you'll want to apply paints that are chemically "hottest" first, followed by their "cooler" counterparts. Cooler paints have less chance of affecting their more-durable, hotter cousins. Generally the rule of thumb is to apply lacquers first, then enamels, then



acrylics. Paint formulations vary widely, however, so when in doubt, test first.

Date your spray cans. Unlike bottled paint, spray cans eventually wear out, starting with their first use. The propellant inside slowly leaks out and renders the cans unusable. The first time you use a spray can, mark it with the day's date with a permanent marker. The next time you reach for it you'll know how long it's been on the shelf, so you don't accidentally run out of propellant halfway through your paint job. When in doubt, it's best to buy a fresh can of paint for your latest project.

Do the right thing. Always store and dispose of paint and thinner safely and properly. Many communities offer regularly scheduled "paint drop-off days" at recycling and trash-collection centers.

■ Understanding decals

Decals can make or break the appearance of a model. Here's a guide to how they should be applied.

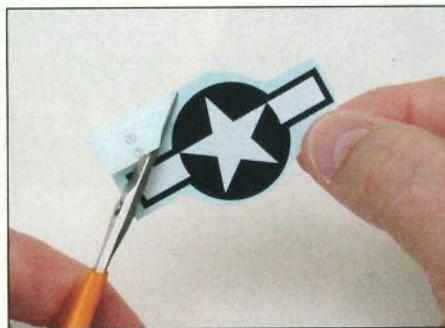
Decals are best applied over a smooth, glossy surface. If you're applying them over flat paint, first apply a clear gloss finish and allow it to dry completely.

Apply the decals to the glossy finish, following the manufacturer's instructions. Using a setting solution will help the decals conform to the surface.

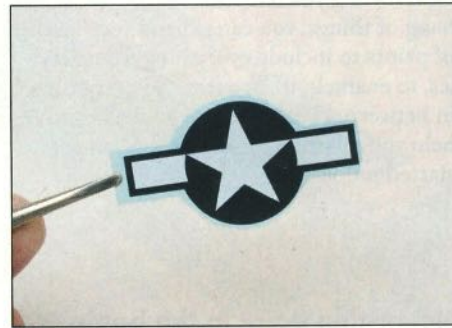
Should your model have a flat finish overall? After the decals dry, apply a coat of clear flat finish. Here's a step-by-step guide to applying a decal over flat paint.



Shiny! Decals adhere best to a smooth, glossy surface. A coat of Pledge Future floor shine can be applied with a soft brush.



Trimming. Trim the decals from their carrier sheet one at a time as you apply them. Small scissors are ideal for this.



Tweezers. Leave enough backing paper to hold the decal securely with a good pair of round-point tweezers.



Water. Dip the decal in cool clean water for 5-10 seconds. It doesn't take much time to activate the decal's adhesive.



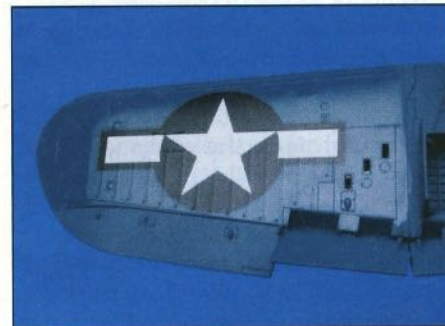
Release. Place the moistened decal on paper towel for a minute or so. It will continue to loosen from its backing paper.



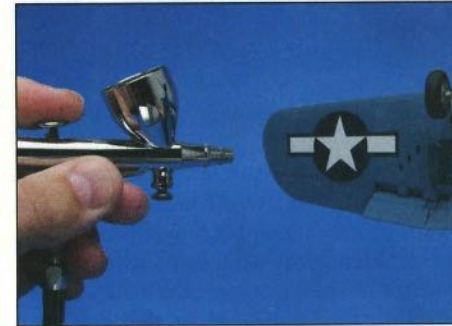
Setting solution. Using a clean paintbrush, add a thin coat of setting solution to the area where the decal will be applied.



In place. Position the decal over the model. Hold it in place with a wet brush and slowly pull away the backing paper.



In place. Slide the decal into position. If the surface is irregular (as here) apply more setting solution to help the decal conform.



Flat coat. After the decal has dried thoroughly, a coat of clear flat can be applied to even the finish and seal things up.

■ Entering a contest

Modeling is generally a solitary effort – unless you're in an active club, you're more than likely building models on your own, to your own standards. However, as your skills increase and your models get better and better, you'll probably be tempted to enter a contest. Modeling contests are great for a number of reasons. Sure, you'll have the opportunity to measure your skills against other modelers (and maybe bring home an award or two), but more importantly you'll be able to admire the work of other modelers and share the tips and techniques you used to build your latest masterpieces. If you're thinking of entering your first contest, here are some guidelines to follow.



Attend first. If you've never entered a contest before, it's probably a good idea to attend one without entering first. Enjoy the models, visit the vendor room, enter the raffle, and clap for the winners during the awards ceremony. You'll leave with a better idea of how a model contest works.

Follow the rules. Most clubs list their contest guidelines online. For example, some "out of the box" categories mandate that you bring along the kit instructions. Don't let a little mistake take you out of the competition.

Ask the promoters. Every contest flyer or website lists the names and contact information for the event. If you're unsure of the event's rules, categories, location, or hours, contact one of the organizers. They're modelers just like you, and undoubtedly can answer your questions.

Ask for advice. Some contests offer one-on-one evaluation of your model by the event's judges after the awards ceremony. While it may take a little bravery and some thick skin to sign up, it's almost always a good idea to have other more

experienced modelers comment on your work.

Pack your models carefully. You don't want to damage your latest project on its way to or from the event.

Have fun! Competition is fun, but don't let the pressure to win ruin your enjoyment of the hobby. Contests are a great opportunity to share your work, admire the craftsmanship of other builders, and most of all, enjoy your time in the fellowship of other modelers.

A to-do list for scale modelers

A short list of things you can do to promote scale modeling and help the hobby grow

- Organize or help run a make-and-take.
- Give constructive feedback.
- Have a stash of kits you know you'll never build? Give them to someone who can use them: Troops serving overseas, a youth group, or a rehabilitation facility.
- Build a model for someone as a gift: The ship they served on, their first (or favorite) car, the aircraft they flew. Trust me, they'll love it.
- Join a modeling club and contribute: Volunteer to help run a contest, write for the newsletter, serve as the chapter contact to help promote the club and the hobby, demonstrate a technique to share your knowledge.
- Build something different. If you're an aircraft modeler, build a tank or a car. It's a great way to broaden your skills and you'll have a better appreciation of your fellow modelers' work.
- Introduce someone to the hobby: Nieces, nephews, grandchildren, co-workers, and/or neighbors.
- Donate a modeling-magazine subscription to your local public or high-school library.
- Share your tools and references.
- Participate in an online forum.
- Send a tip (or an article) to us at *FineScale Modeler*.

Enthusiastic scale modelers like you have been the lifeblood of *FSM* for almost 30 years. For information on how to get published, look at the "Contact Us" on page 6 of this issue.

MODEL SHIP BUILDING BASICS

Part 3: Priming, masking, and painting

BY AARON SKINNER

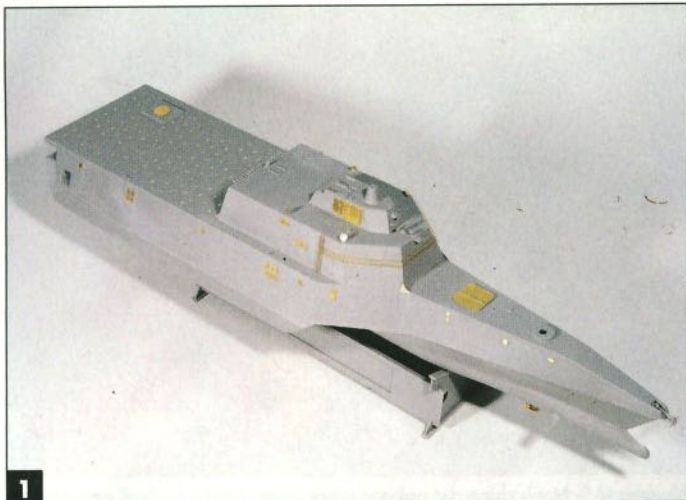
USS *Independence* arrives at Mole Pier at Naval Air Station Key West in March 2010 on the way to Norfolk, Va., for initial testing and evaluation before sailing to its homeport in San Diego. Modern navy ships are gray, but that's not the whole story (as Aaron discovered). U.S. Navy photo.

Welcome back to my continuing build of Trumpeter's 1/350 scale USS *Independence* littoral combat ship.

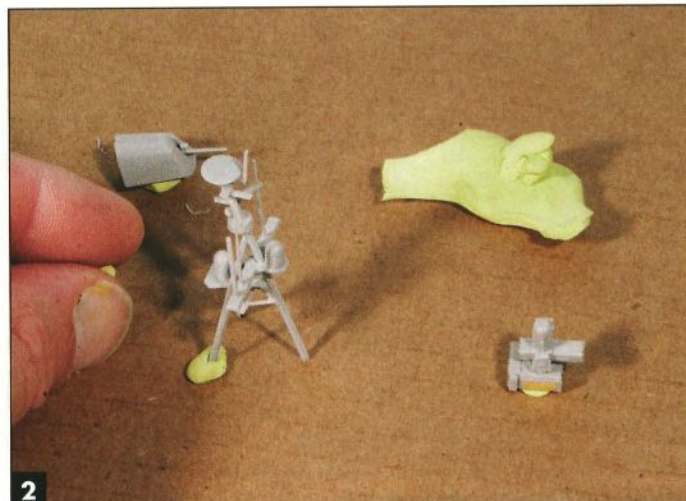
In Part 1 in the September 2011 *FSM*, I assembled the trimaran hull and other major components. Part 2 focused on the details, both plastic and photoetched metal.

In this month's article, it's off to the paint shop. We'll have fun airbrushing various grays and using a lot of masking tape.

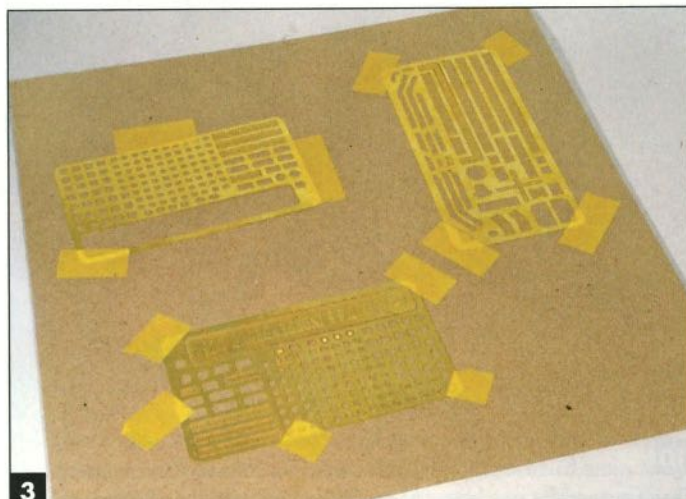




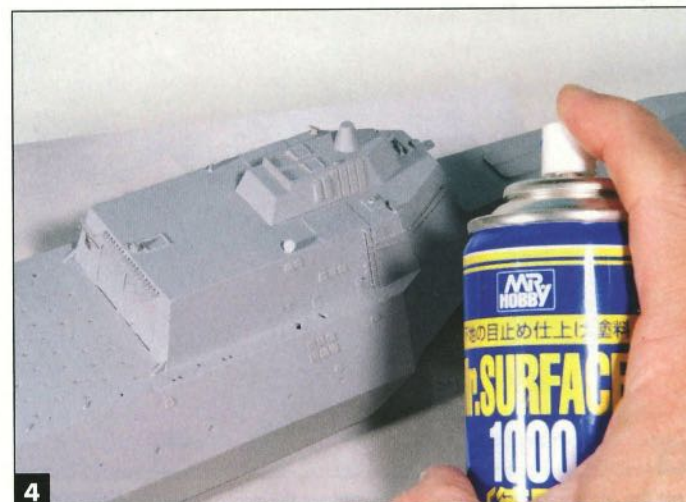
1 After all the details and photoetched metal were added, my *Independence* was ready for paint. You could apply the top coat directly to the model, but I recommend priming. Not only does it help cover inconsistencies caused by the different materials, but primer reveals more gaps and rough spots.



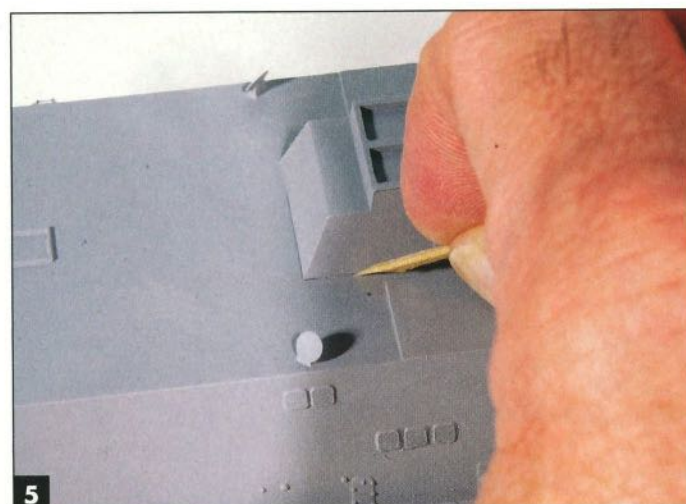
2 Remember to prepare the rest of the small parts for priming and painting. Some parts were painted while they were still on the sprues. I used poster putty to attach small subassemblies, such as this mast and turret, to a sheet of cardboard for painting.



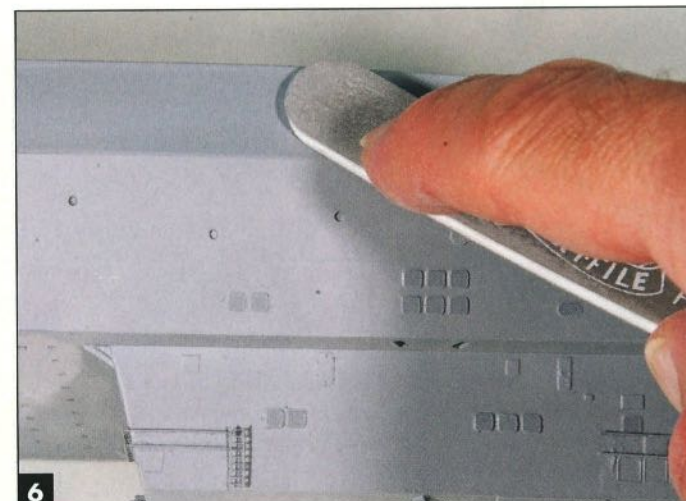
3 I taped the photoetched-metal frets to another piece of cardboard. Don't forget to flip the frets over after the paint dries so both sides get sprayed.



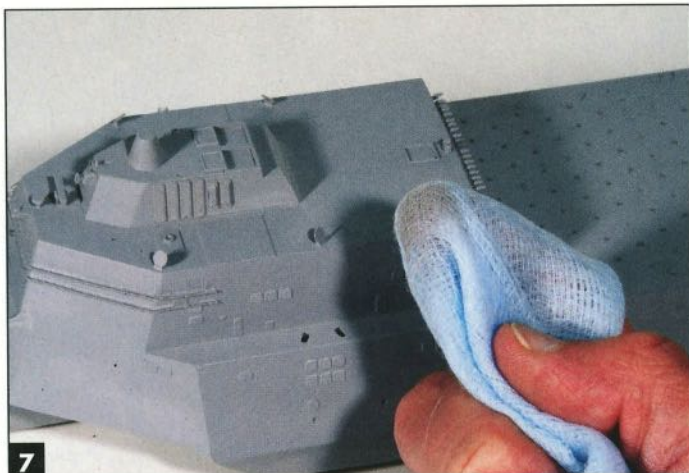
4 Mr. Surfacer 1000 is expensive, but it covers extremely well and produces a solid foundation for paint. I used a spray can for general coverage.



5 Primer revealed gaps around the funnel assembly; I filled them with thin super glue applied with a sharpened toothpick. I just touched the seam, and capillary action pulled the glue along the line. I gave the ship another coat of primer after correcting such gaps and blemishes.



6 Lightly sand the primed surface before applying paint. I used a fine sanding stick (3200-grit). This removes roughness as well as any dust and fuzz that may have settled in the wet primer, leaving a velvety smooth surface that's receptive to paint.



7 Lightly run a tack cloth over the model to pick up any sanding residue. You can find them at hardware and auto-supply stores, but I prefer the ones from Testors; they are a little less tacky and won't leave a sticky residue on the model. Be careful not to snag any delicate parts with the cloth.



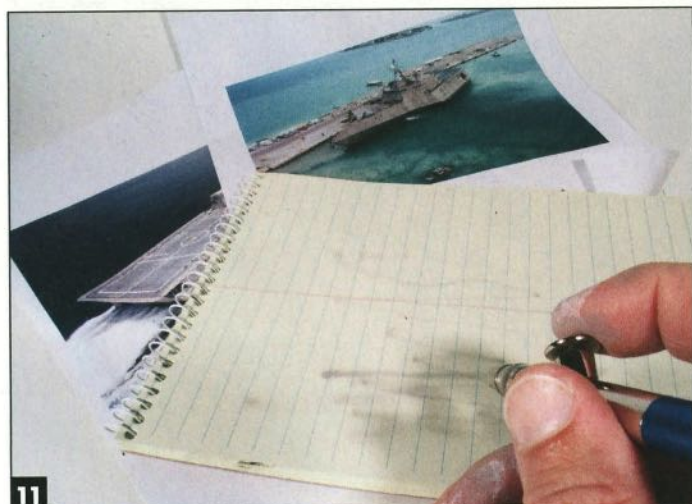
8 Modern U.S. Navy ships are painted haze gray; Testors neutral gray is a good match. I used Model Master enamel neutral gray mixed with Model Master enamel thinner; I added two parts paint to one part thinner.



9 I set the air pressure at about 20psi and set the nozzle on a Badger 200 single-action airbrush to a narrow spray pattern to paint nooks, crannies, corners, and other hard-to-reach areas first.



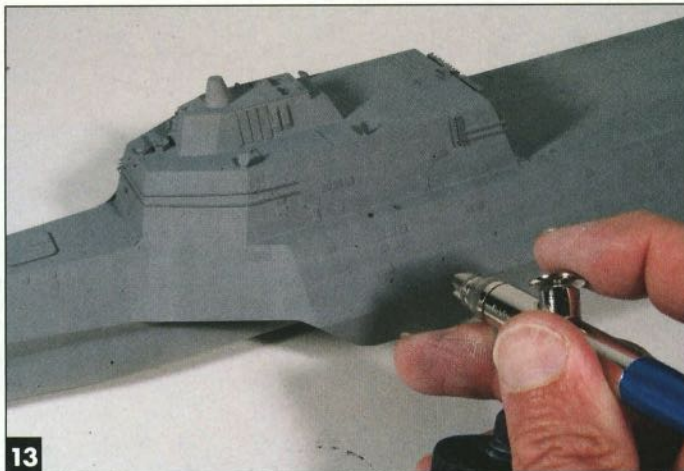
10 Then I opened the nozzle to a wider pattern and turned up the pressure to 25psi for airbrushing the rest of the model.



11 Looking at photos like the lead image in this article, I noticed the hull is not a uniform gray but a patchwork of different shades. I added a few drops of flat white to neutral gray and, testing on paper, set the nozzle to the finest line possible.



12 With the pressure set to 15psi, I sprayed thin vertical and horizontal lines on the hull sides, keeping them as straight as possible to match photos.



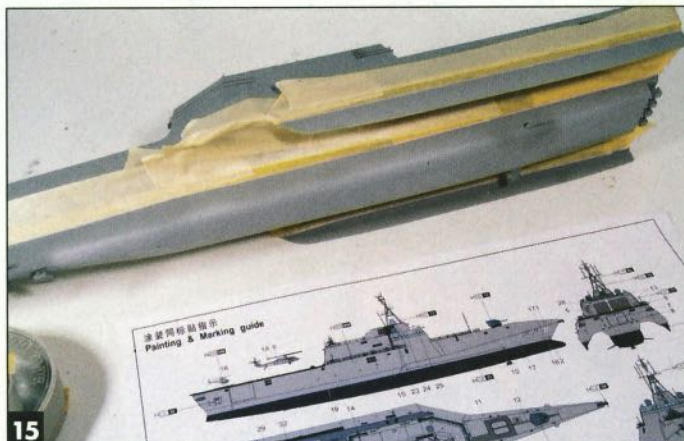
13

The contrast looked a little stark, so I misted a 1:2 mix of neutral gray and thinner across the hull to soften everything. Don't spray mixes with lots of thinner too heavily or they may damage the paint.



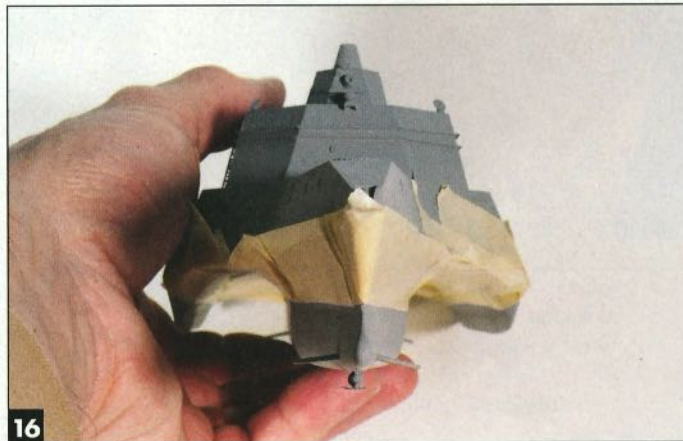
14

I masked the helicopter deck with Tamiya masking tape and airbrushed it Model Master gunship gray. Be careful applying tape around the delicate photoetched metal on the superstructure — it's easily crushed or removed by the tape. I burnished the tape only along the paint edge.



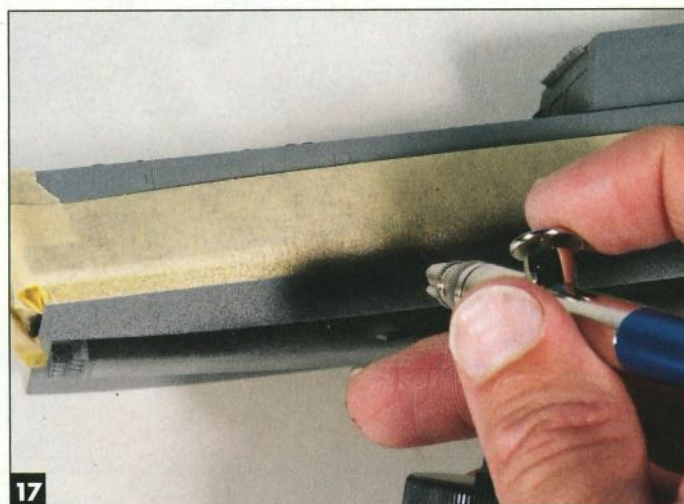
15

The lower hull on the *Independence* is all black rather than the more-common oxide red with a black boot stripe. You'd think that would make things simpler. But masking around three hulls and keeping everything straight is no mean feat. Constantly refer to drawings and double-check reference points to be sure the alignment is right.



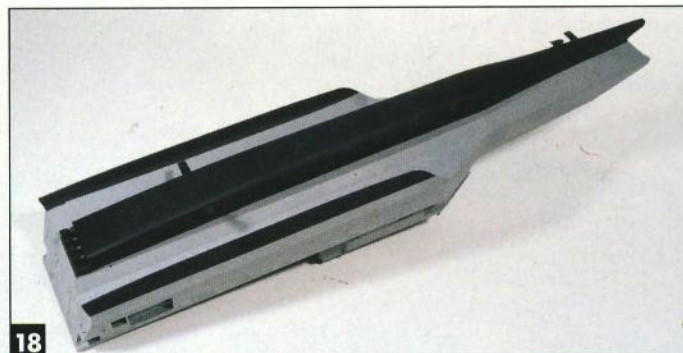
16

Look at the model head-on to verify that the lines match from port to starboard. Clearly they don't in this image — so, I repositioned the tape along the port side of the main hull.



17

I started spraying with a fine line along the edge of the tape masks. This helps seal the mask to prevent paint from bleeding under it, and it minimizes the ridge that might form along the edge if you lay the paint on too thickly.



18

Removing the tape as soon as the paint is touch-dry also minimizes the chance of a ridge forming along the masks. After a few touch ups, the *Independence* was ready for detail-painting and final assembly. **FSM**

DON'T MISS PART 4!

In the December 2011 *FSM*, Aaron hand-paints details and adds the last bits and pieces before launching the littoral combat ship.

Reader Gallery

LORENZO BORGESA GHEDI, BRESCIA, ITALY

When the French navy decided to fly F-8 Crusaders from its carriers *Clemenceau* and *Foch*, it needed to find a way to slow the jets down, writes Lorenzo. The final result was the F-8E (FN), an F-8E with modifications that enabled it to approach a carrier at 90 knots. Lorenzo gave Hasegawa's 1/48 scale F-8E/J kit French accents with an Aires F-8E resin cockpit and exhaust, antennas he made from styrene, and decals from Carpena. Model railroad grass skirts the runway on Lorenzo's plywood base.

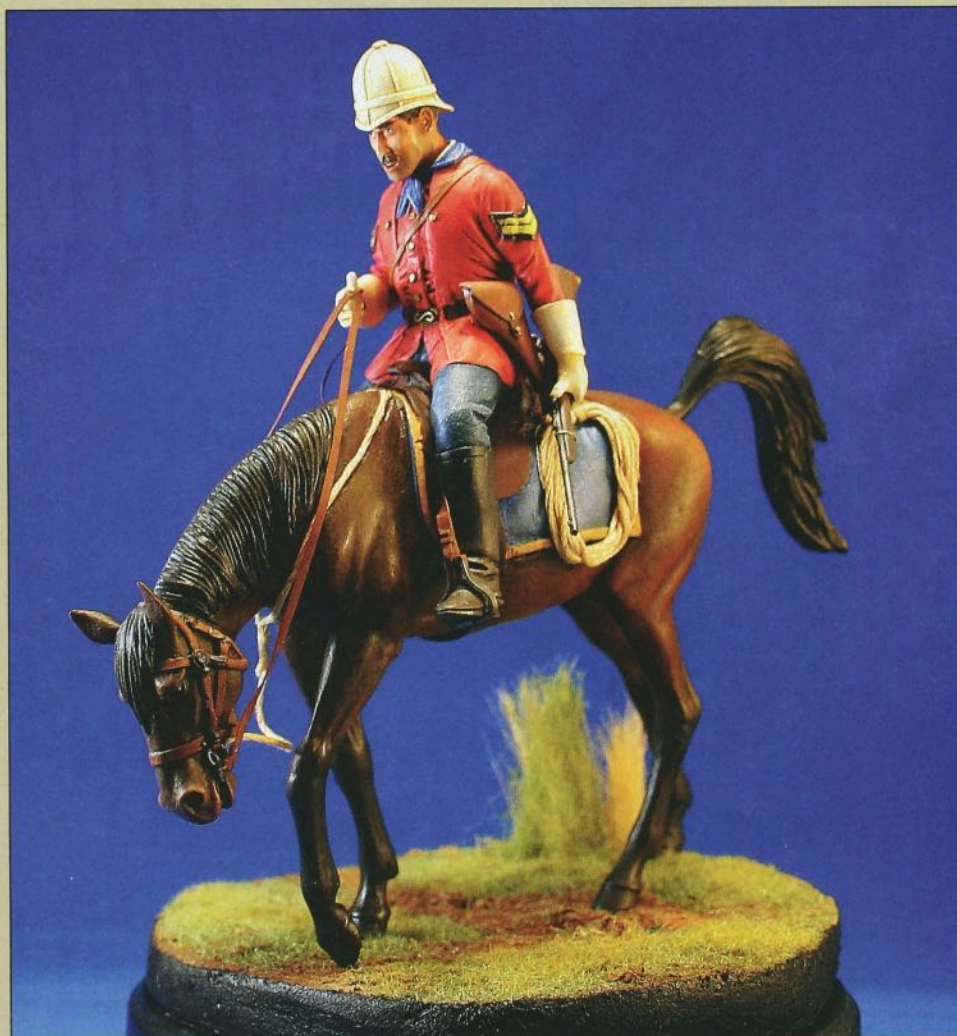


▲ MAC METCALFE JUNEAU, ALASKA

Mac usually builds 1/48 scale aircraft in diorama settings, but when he saw Tamiya's armor in 1/48 scale he wanted to try his hand. "I chose the m SPW SdKfz 251/1 Ausf D," he says. "I have no idea what all those letters and numbers mean, but I knew I liked the look of the German halftrack. I was excited by the groundwork opportunities armor kits afford." By the way, it's a *mittlerer Schützenpanzerwagen*, or medium armored infantry vehicle.

► **BILL CARLO
CROSSVILLE,
TENNESSEE**

"This will make a good addition to my armor collection," says Bill of Academy's 1/35 scale M7 Priest. The open compartment is loaded with stowage from Academy, Italeri, and Verlinden. He got the figures from a spare Sherman kit and painted them with craft-store acrylic paints.



SEND US YOUR PICTURES!

Shouldn't your model be in Reader Gallery? *FineScale Modeler* is always accepting new material from around the world.

Upload high-resolution digital images (preferably unedited, RAW format) with complete captions at www.Contribute.Kalmbach.com, or send prints or CD-ROMs to *FineScale Modeler*, Reader Gallery, 21027 Crossroads Circle, P.O. Box 1612, Waukesha, WI 53187-1612.

Be sure to tell us the kit manufacturer, model, scale, modifications, paint and finishes used, and reason for choosing the model, along with your name and address. We look forward to seeing your work!

◄ **RAY WELSHMAN
ST. PHILIPS, NEWFOUNDLAND &
LABRADOR, CANADA**

Ray converted a Verlinden 120mm U.S. Cavalry captain to a Mountie patrolling the prairies of the Canadian Northwest in 1875.

Reader Gallery

DENNIS BURKE

STERLING HEIGHTS, MICHIGAN

Dennis prefers F-18s; this is the second one we've seen from him in as many years. He built HobbyBoss' 1/48 scale F/A-18A, waited for a sunny day, and posed it convincingly in front of a photo backdrop that looks more like California than Michigan.



◀ GREG HILDEBRANDT

WINAMAC, INDIANA

Greg writes, "This is a kit from the '80s, a fictional robot called an Aufklärungs-panzer T.W.-47 Kröte. In 1/20 scale it stands 6" tall. I just finished it when your issue about weathering arrived, so I thought it might be of interest."

▲ PAUL KINNEY

SHANGHAI, CHINA

Paul enjoyed Hasegawa's 1/48 scale Republic P-47 Thunderbolt. He says, "The only tricky part was the wing-fuselage fit, which required a bit of shimmying. The decals were especially good, a real relief given their importance on this plane."



▲ **JOHN GRIMA**
SAYLORSBURG, PENNSYLVANIA

Yes, it's a model — a really big model! When John acquired the partially built lower hull of this 1/6 scale M26 Pershing, he knew he was in for it. "Everything from the hull up was going to be scratchbuilt," he says. He used 1/8" sheet styrene over a wood-block frame with sheet-styrene bulkheads. "I wanted to completely fabricate and machine a new suspension," he recalls. So, he cast new parts in resin. The fenders are sheet metal, and the toolboxes have working hinges and latches. The engine grille features soldered brass strip. Sanding and sculpting fiberglass produced the turret. There are many other working features and ingenious constructions, but we wanted this caption to leave some room for the picture!



◀ **PER ARNE RIKVOLD**
TALLAHASSEE, FLORIDA

The icebreaker that came to be known as Soya was ordered by the Soviet Union in 1936. But with the onset of World War II, Japan held onto the ship. After the war, it was used for repatriation and to supply lighthouses until it was overhauled for exploration in Antarctica. Per built Hasegawa's 1/350 scale model of the well-traveled ship.

Reader Gallery



**RICHARD SAUCIER
NAPANEE, ONTARIO,
CANADA**

"This is my build of a 1/35 scale Canadian Leopard C2 with MEXAS additional armor," Richard says. "I started with a Revell Leopard 1A5 using the C2 and the MEXAS conversions from Maple Leaf Models. I also used the Canadian tank crew and C2 MEXAS photoetched metal from Real Models, mine rollers from the Academy Merkava 2, along with a scratchbuilt attachment and thermal blankets made from Milliput epoxy putty." Richard installed Hong Kong Creation Workshop Leopard 1 tracks and various stowage from MLM as well, and painted with Tamiya acrylics weathered by Mig pigments and washes.

► **PIERRE LAGISQUET
BRANDON, FLORIDA**

It's Pegasus Hobbies' Apollo 27 space rocket, a "what if?" concept based on speculations in the 1950s and '60s about space travel. "I built it mainly because it looked great in the box art," Pierre says. "However, the plain white and black scheme didn't appeal to me. Inspired by the old Thunderbirds TV show, I painted it Testors orange, then added yellow stripes to the two side engines using spare decals. The image is a combination of the model and a dark blue background, with a space image from the Internet." He also used Photoshop to "airbrush" exhaust streaks.





▲ **JIM TURNBULL**
ST. JOHN, NEW
BRUNSWICK,
CANADA

Fun by the Bay of Fundy: That's where Jim photographed his Tamiya 1/32 scale F-14A Tomcat. He jammed the cockpit full of parts from Technics, Black Box, Eduard, and Verlinden.



▲ **JOSE PEREZ**
CULIÁCAN, SINALOA, MEXICO

This Predator is a 26"-tall, 1/3 scale, solid piece of resin from Big Time Kits. Jose spent more than 300 hours filing, grinding, and detailing. Airbrushed Liquitex artist's acrylics finished the monstrous figure.



▲ **PAUL KRETSCHMAR**
DOWNINGTON, PENNSYLVANIA

Having built AFV Club's 1/35 scale M1130 Stryker CV TACP, Paul writes: "Even though I started modeling as a kid and got back into it about six years ago, this model represents a lot of firsts for me: first time using photoetched metal; first try at realistic weathering; first and only successful use of an airbrush; and first entry in a model contest." He picked up a bronze medal for it, too!



▲ **AGOES SOEMARGO**
MALANG, JAWA TIMUR, INDONESIA

Agoes built Tamiya's 1/24 scale Toyota Celica GT to model the car driven to victory by Spain's Carlos Sainz and Luis Moya in the 1992 WRC Safari Rally.

Here's how to model AN MLRS

A short lead time limits a master to the bare essentials

BY DENNIS GERBER

The U.S. Army's standard platform for surface-to-surface artillery rockets and missiles, the M270 Multiple Launch Rocket System (MLRS) is a fully-tracked, self-propelled launcher/loader on a stretched chassis derived from the Bradley Infantry Fighting Vehicle. With a crew of three, the automated, self-loading system can launch 12 rockets in less than a minute, quickly side-step return fire, and reload in about nine minutes. Such "shoot and scoot" tactics rely on the M270's excellent cross-country characteristics: It can climb a 60-degree slope, scale a 3'-tall wall, and has a top speed of 40mph. It was built by Lockheed Martin and has been proving itself in combat since its deployment in Operation Desert Storm.

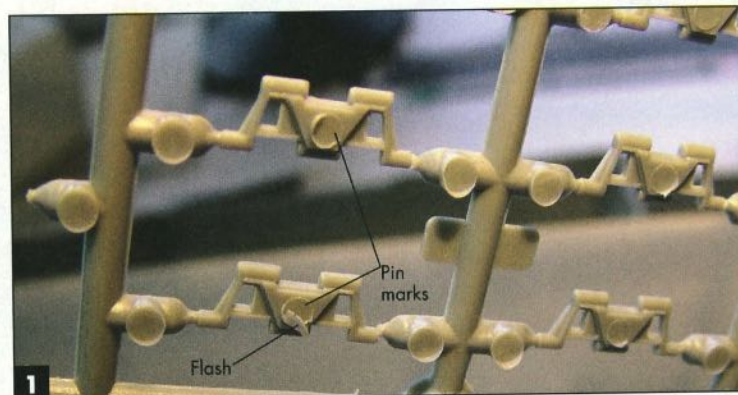
In 2006, I was working at L-3 Communications as a cameraman and mechanical engineer, developing a new missile system for the U.S. Navy. One day my boss, Dennis Ingebretsen, came into my office and said, "Boy, do I have a project for you!" He handed me a Shanghai Dragon MLRS kit (1/35 scale, No. 3523). "We want to show the Army that our new missile can be fired out of the MLRS launcher," he said. "Think you can build it?"

"Well, sure I can," I told my boss. Then he told me I had two weeks.

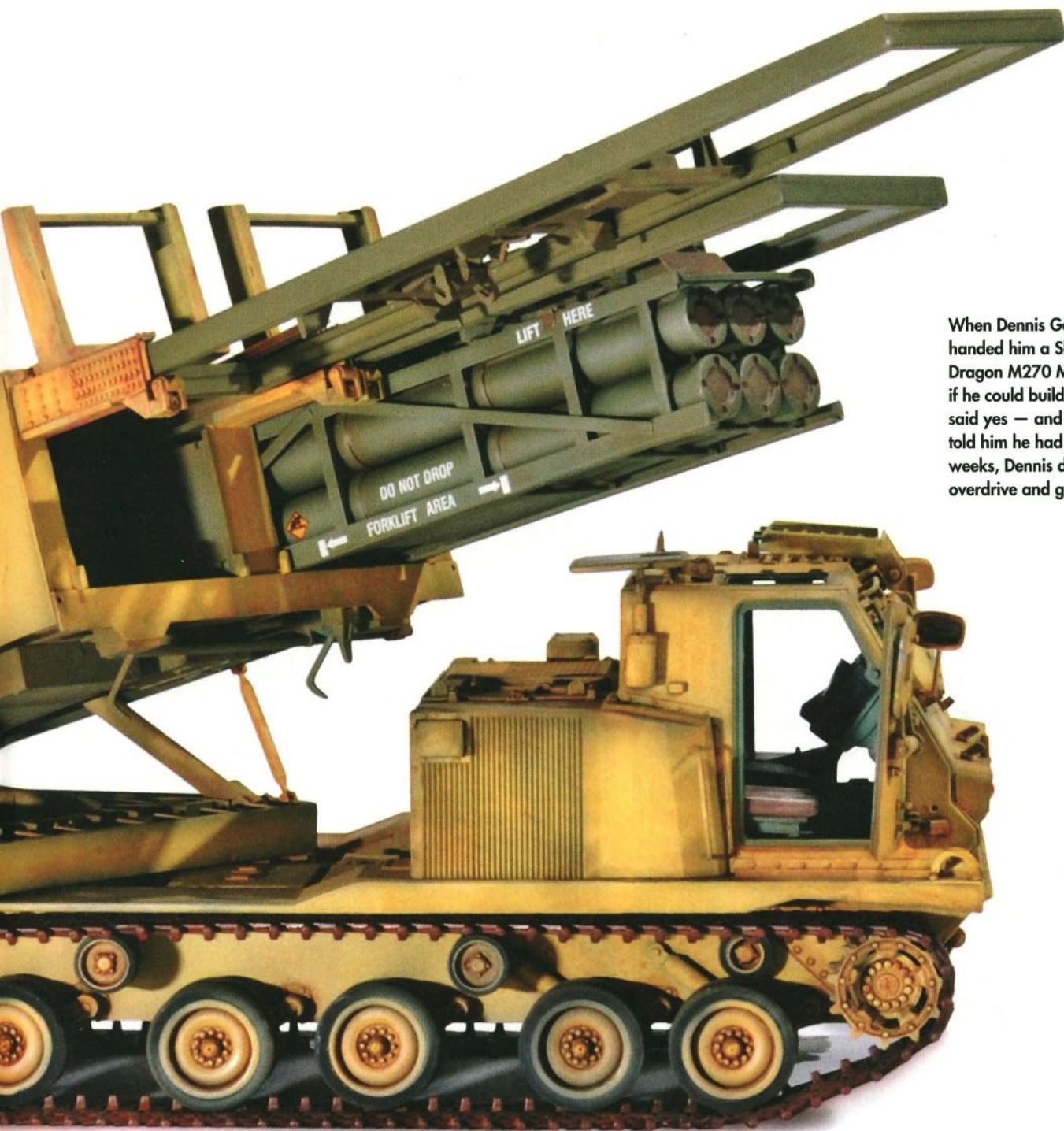
I had the original Dragon MLRS kit in my stash somewhere at home, and I thought it would be a good build — but when I looked at the Shanghai Dragon kit, I knew right away it wouldn't be easy. The kit looked like a re-pop of the original, with sink marks and flash everywhere — but I couldn't find the original kit anywhere. My work was cut out for me. Still, I was getting paid to model!

Construction

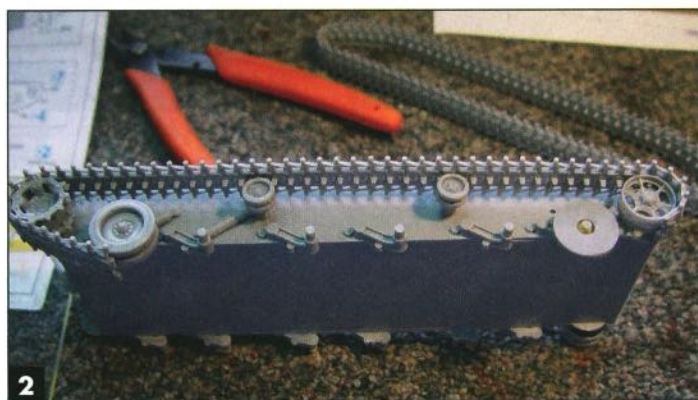
The hardest part was removing all the flash and ejector-pin marks. The worst were the individual-link tracks, **1**. Each had to be hand-carved to fit properly. It took hours to clean up the tracks, running gear, and wheels, so I worked only on the ones that would be visible on the finished model. I taped the wheels on and built the tracks carefully, so I could remove them for painting later, **2**.



Flash and ejector-pin marks were prevalent on every link — and Dennis' time was short — so he only repaired the ones he knew would be visible.



When Dennis Gerber's boss handed him a Shanghai Dragon M270 MLRS and asked if he could build it, naturally he said yes — and when his boss told him he had a mere two weeks, Dennis dropped into overdrive and got 'er done!



2

Dennis assembled the tracks in sections he could remove for painting.



3

Taping the cab together allowed test-fitting to ensure everything would fit after painting (essential to Dennis' timesaving plans).



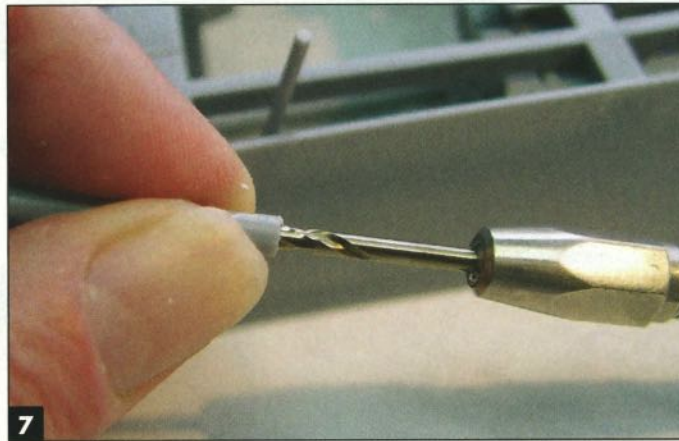
Some things just take time, though. Dennis applied super glue to seams on the missile tubes ...



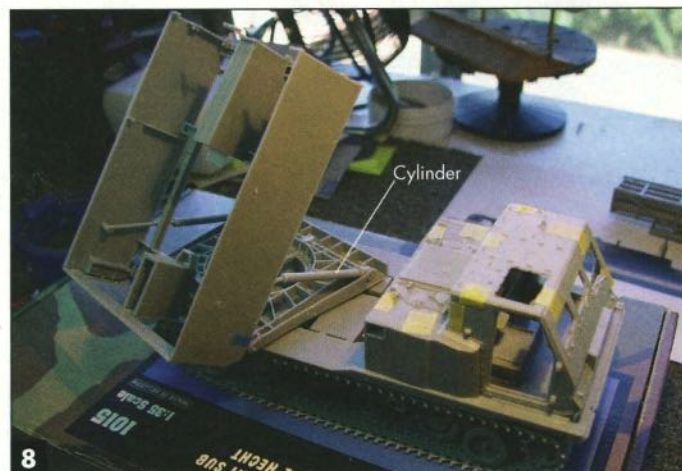
... sanded the surfaces smooth ...



... and wound up with seemingly seamless cylinders.



Drilling out hydraulic cylinders ...



... enabled Dennis to pose the missile launcher at various elevations.



Inside the cab, Dennis applied a base coat of interior green ...

Because I would be painting the interior and masking it off before gluing the cab, I first taped together the cab and test-fitted it on the chassis, **3**.

During all that, I started work on the missile pods. The designer of the missile, Dave Katagiri, agreed to scratchbuild a couple of the L-3 missiles to be displayed with the vehicle. (But I can't show you those without getting in some serious trouble.)

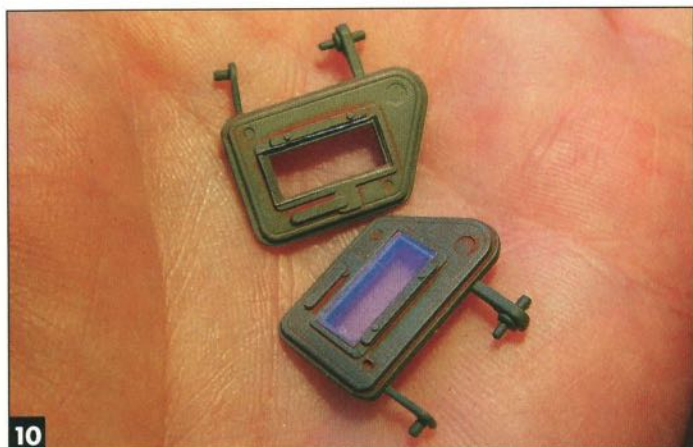
Next, I tackled the missile-pod frames. Again, every part had pin marks, sink marks, and seams to repair. I filled gaps and scraped and sanded seams until they were smooth. Same went for the tubes that held the missiles; super glue, **4**, and sanding, **5**, smoothed their seams, **6**.

The MLRS "box" needed hours of cleanup and trial-fitting before I could super glue it together. I wanted the

launcher fully articulated to pose the vehicle in any position, so I drilled out the hydraulic cylinders of the launch box, **7**, to accept the pistons that lift the box, **8**.

Painting

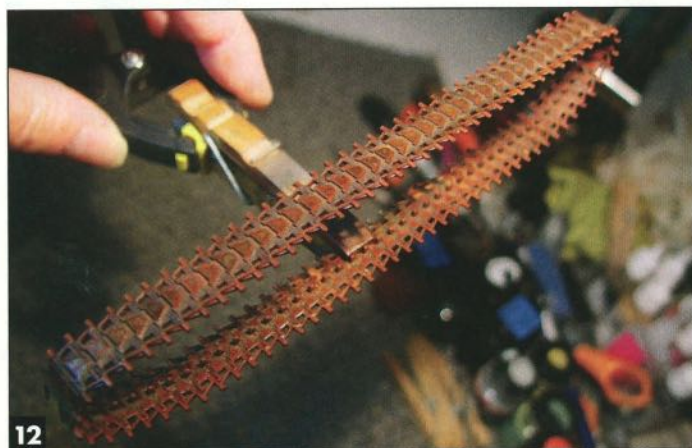
Careful planning of the building sequence enabled me to paint everything at the same time, winning time in the process. Except where otherwise noted, the paints are



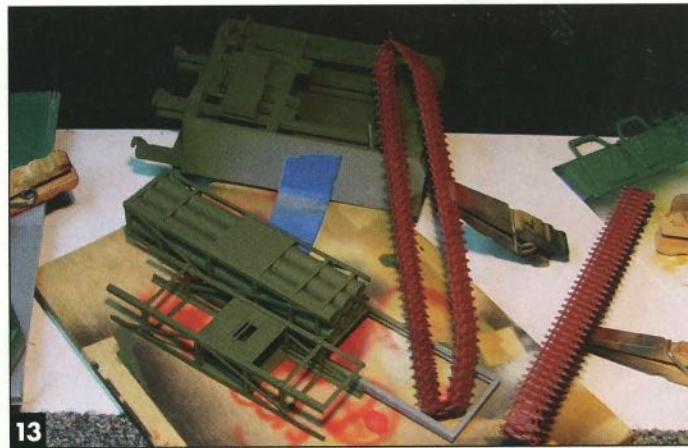
10 ... followed by a lighter shade of the same and detailed with a raw umber wash. Thinned white glue on the acetate windows would dry clear.



11 A base coat of rust on the tracks ...



12 ... was followed with dark washes and more rust, bringing out the detail.



13 Employing a similar technique on the missile tubes, Dennis base-coated with olive drab ...



14 ... and followed with a lighter shade that highlighted high spots.



15 Dennis got the wheels rolling with a base coat of faded black.

Testors Model Master enamels.

I painted inside the cab with interior green, **9**, then misted with a lighter green to bring the detail into greater relief. Raw umber washes deepened recesses and edges, **10**. Each of the windows had to be cut from a sheet of clear acetate and fitted; I attached them with thinned white glue.

After airbrushing the tracks with rust and letting them dry, **11**, I gave them art-

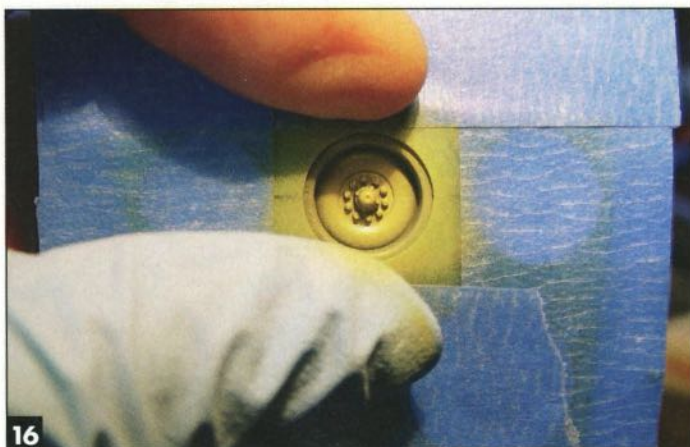
ist's-oil washes of black, raw umber, and rust, **12**.

The interior of the launcher and missile pods got a coat of olive drab, **13**, then a misty airbrushing with a lighter shade of the same, **14**.

Next, the running wheels — all 40 of them! I mounted each one on a toothpick and sprayed them with a faded black, **15**. I misted the tires with a dust color, avoiding

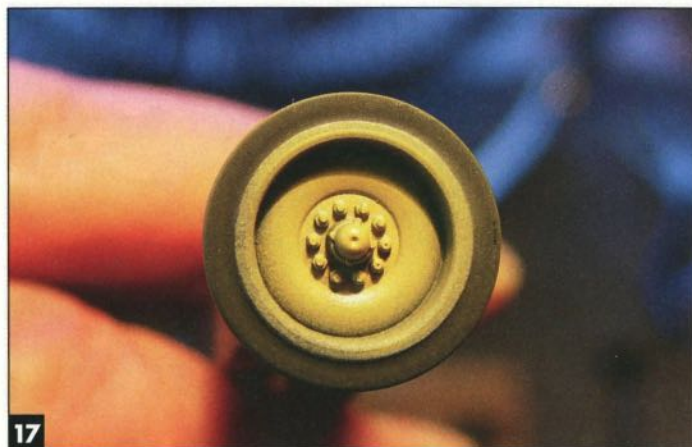
the sides. Then, using a circle cutter to make a template that covered the tire, I lightly airbrushed each wheel Gulf sand, **16**, leaving some of the black showing through, **17**. Each wheel then received an artist's-oil wash of raw and burnt umber, **18**.

After masking its interior, I painted the launch box with Model Master raw umber followed with two shades of Gulf sand, let-



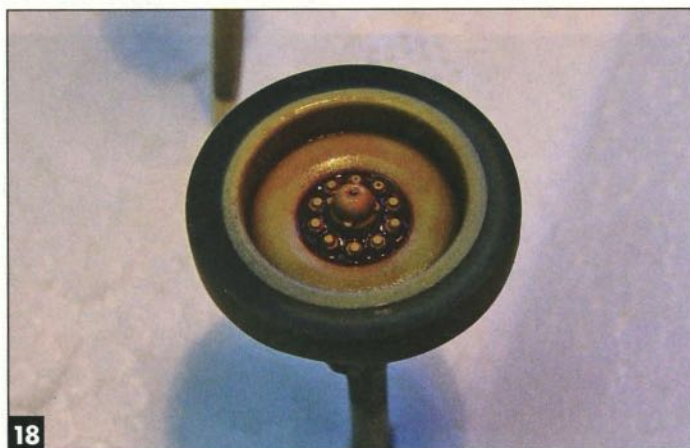
16

Then he cut a circle template and sprayed through it to paint the wheels ...



17

... without hitting the tires.



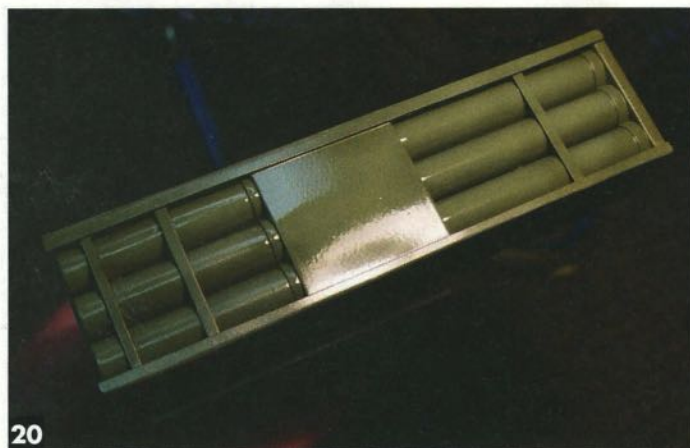
18

A raw umber wash picked out hubs and lug nuts.



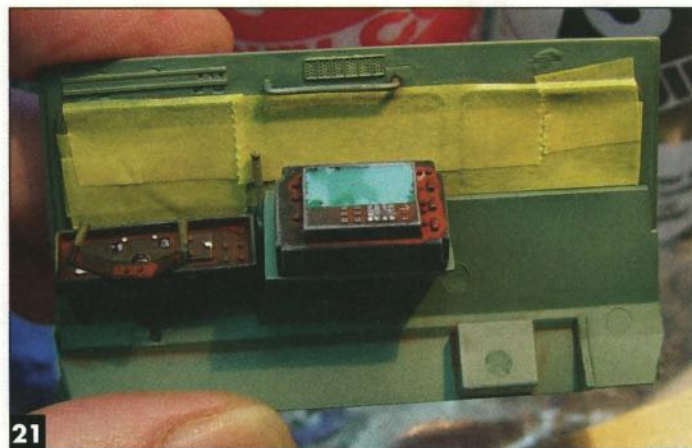
19

More gonzo paint detailing: Dennis base-coated with raw umber, then air-brushed Gulf sand in two light coats that let a little raw umber show through to deepen details.



20

A hard gloss makes a receptive surface for decals.



21

After painting the cab interior, Dennis took time to mask it off in such a way that he could pull the masks back out after assembly and exterior painting.

ting some of the raw umber show through to give depth to details, **19**.

A word about decals

Many modelers seem to have problems with decals silvering; I never do because I make sure I have a super shiny surface first. So, after paint on the missile pods and launch box had cured, I applied Testors Glosscote. I

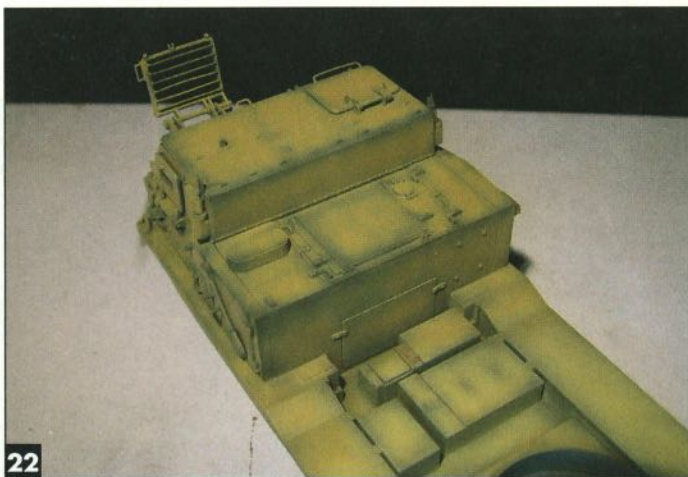
cut the Glosscote 50/50 with lacquer thinner for a hard shine to which the decals tightly adhere, **20**. Later, a spray of Testors Dullcote would flatten the finish again and make the decals look as if they'd been painted on.

Dot filters

I masked the interior before gluing the slab-sided cab together, **21**, leaving doors

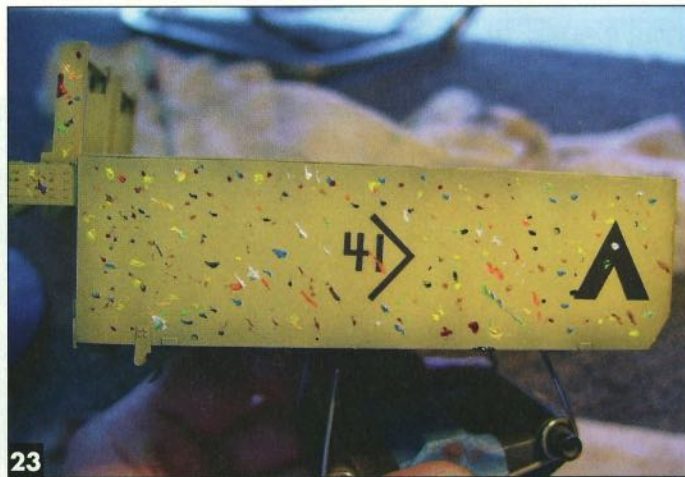
and windows removable so I could extract the masks after everything was painted. As on the launch box, I painted the cab exterior raw umber and misted two coats of lightened Gulf sand, **22**. After Glosscote, then decals, I applied Testors Dullcote to restore the flat finish.

Now it was time for weathering with "dot filters." I used about a dozen colors of



22

A raw umber base coat, followed by light coats of Gulf sand, left recesses shadowy and high spots brighter to vary the surfaces.



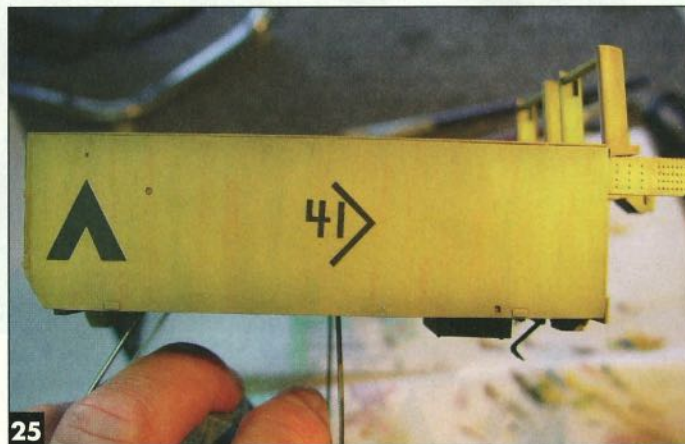
23

Dot filters begin with a randomly applied, multicolored array of artist's oils.



24

Then, using a broad, thick brush wet with Turpenoid, Dennis draws the colors down the surface.



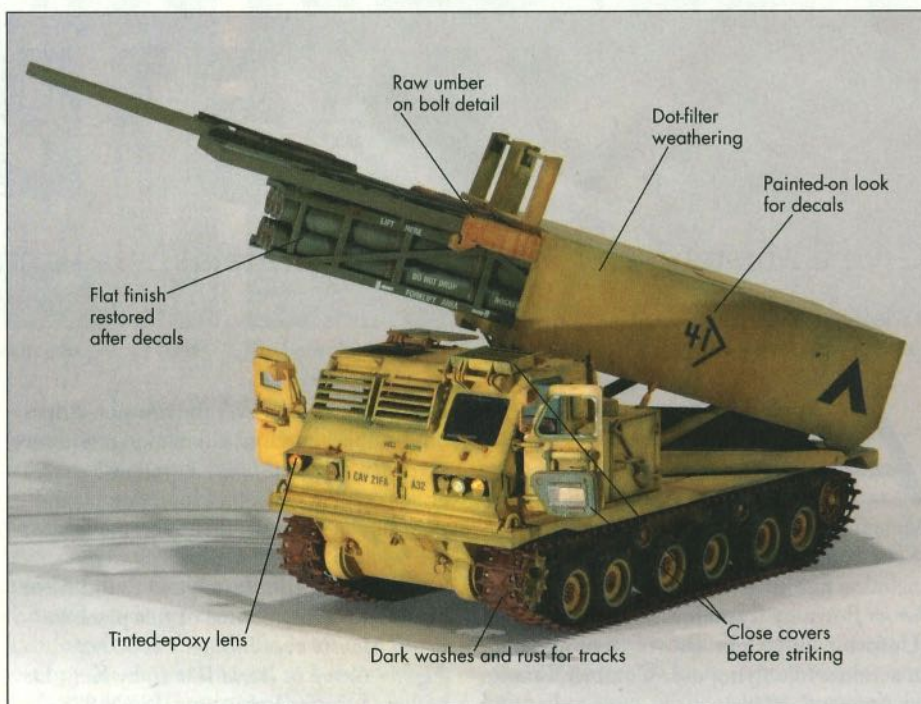
25

The filter varies a monochromatic scheme and lends depth, even to featureless panels.

artist's oils, placing dots randomly on the launch box, **23**. Then, with a wide sable brush wet with Turpenoid, I drew the colors down from top to bottom, **24**, leaving traces of the different colors, **25**. I really liked the result, though I went overboard with the number of colors. (*A Van Gogh effect ... hmm.*) I would try this again, but next time with more restraint.

I held my breath and removed the masking from the interior: Whew! No mistakes! I glued on the wheels and tracks, then small details. I brush-painted the mirrors chrome silver. The running lights were hand-brushed silver followed with Tamiya clear orange, then given a drop of 5-minute epoxy for depth. With the fitting of the doors, my MLRS — well, theirs — was done, and on time.

I would have liked to have had more time for preparing and repairing the parts, and there were a few obvious mistakes — but none my boss could find! Just one regret: About a week later, I found the original Dragon kit. It had hardly any of the defects of the later kit. I could have built it in half the time! **FSM**



Whaddaya know! Dennis made his deadline and got it done in time for the Navy to show a new missile to the Army. Of course, shortly after completing this build Dennis found the kit he was looking for in the first place. That's modeling!



Varied shades and weathering create a realistic finish on Raúl's P-51B.

Weathering a P-51B

Give a Mustang a well-used natural-metal finish and invasion stripes

BY RAÚL CORRAL

After letting it sit in my "to-be-built" pile for some time, I was inspired to begin work on Tamiya's 1/48 scale RAF Mustang III (kit No. 61047) by a decal sheet from Lifelike Decals (No. 48-023). It included markings for the P-51B *Big Mac Junior* flown by Capt. John Brown Jr. (Unfortunately, Capt. Brown went missing in action while flying over Combrit, France, on August 8, 1944.)

This Mustang has everything a modeler could want: a natural-metal finish, invasion stripes on the lower surfaces of the wings and

fuselage, olive drab over the invasion stripes on the upper surfaces, kill markings and sortie marks, *Big Mac Junior* in yellow letters, a good-looking Malcolm Hood canopy, and even shark eyes and a mouth on the front of the fuselage behind a yellow spinner.

I started with research and found three black-and-white photos of this plane in *Seven Months over Europe: The 363rd Fighter Group in World War II*, by Kent D. Miller (Schiffer Publishing, ISBN 978-0-7643-1269-6). Two of the photos showed a dirty Mustang with chipped paint everywhere. A heavy weathering job was a must.

Construction

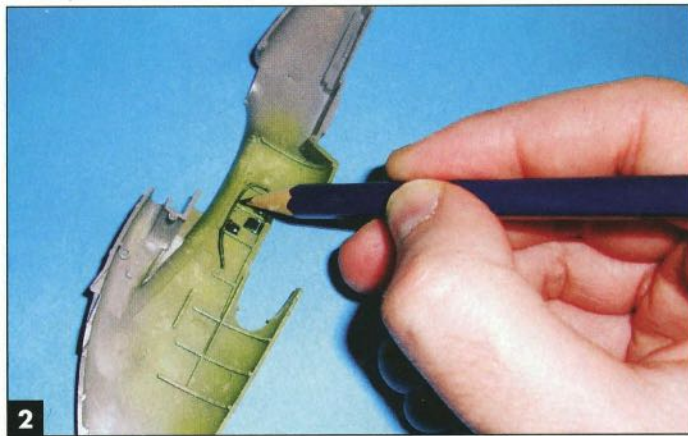
I wanted to build this kit straight out of the box. The fit of Tamiya's kit is outstanding; I didn't need any putty to fill joins.

I started with the cockpit. It's nice just out of box, but if you plan to leave the canopy open I recommend some additional wiring and detail here and there, especially seat belts. I just used seat belts provided by Tamiya in its decal sheet. They look OK to me if the canopy is left closed.

Again, all the small parts fit well. I sprayed the cockpit Aircraft Colors U.S. interior green (No. 3049) over a previous



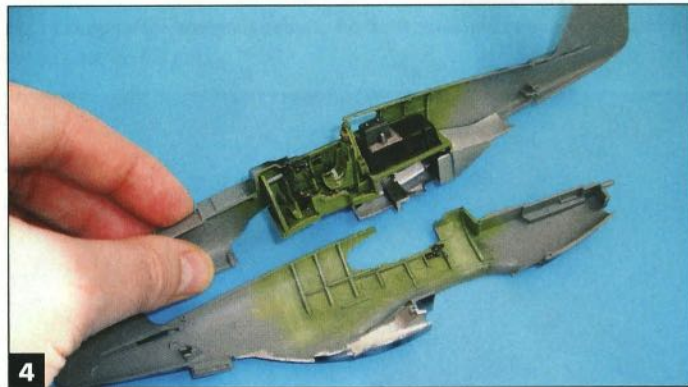
1 Raúl began work in the cockpit with a coat of Aircraft Colors U.S. interior green.



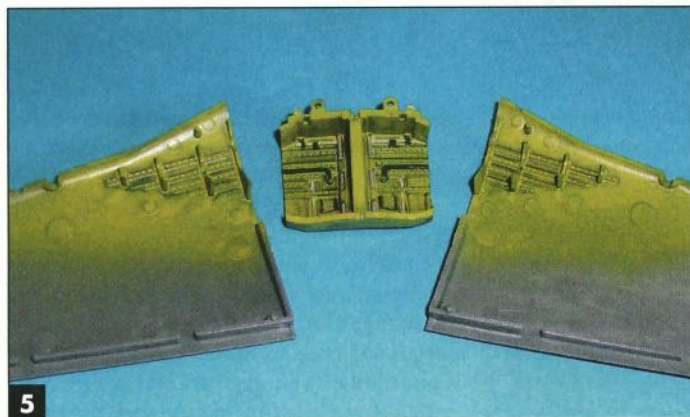
2 Using a pencil, Raúl colored small details in the cockpit.



3 After dry-brushing details and adding the kit-supplied instrument panel decal, the P-51's cockpit is ready for assembly.



4 A coat of Humbrol matte varnish over the cockpit removes the glossy effect.



5 A wash of Humbrol black brought brush-painted details into greater relief inside the wheel wells.



6 Raúl pre-shaded panel lines and surface detail before painting the natural-metal base coats.

layer of Tamiya flat black (XF-1), **1**. I dry-brushed details with a light gray enamel (I don't like acrylics for dry-brushing) and painted small parts by hand with the help of a fine brush and a pencil, **2**. I used the kit-supplied decals for the instrument panel, **3**. A quick coat of Humbrol matte varnish dulled the shine, **4**.

I also painted the wheel wells Aircraft Colors U.S. interior yellow (No. 3050) before joining the fuselage halves. After applying washes of Humbrol black diluted with Humbrol thinner, I colored wires and

small details with a small brush, a pencil, and enamel paints, **5**.

Next I joined the fuselage halves and wings. I pre-shaded all panel lines and surface detail with Tamiya flat black, then masked the canopy using the always-handly Eduard masks for the Tamiya P-51, **6**. (Unfortunately the middle section of the canopy was not in this set, so I completed it by hand using Tamiya tape).

Painting

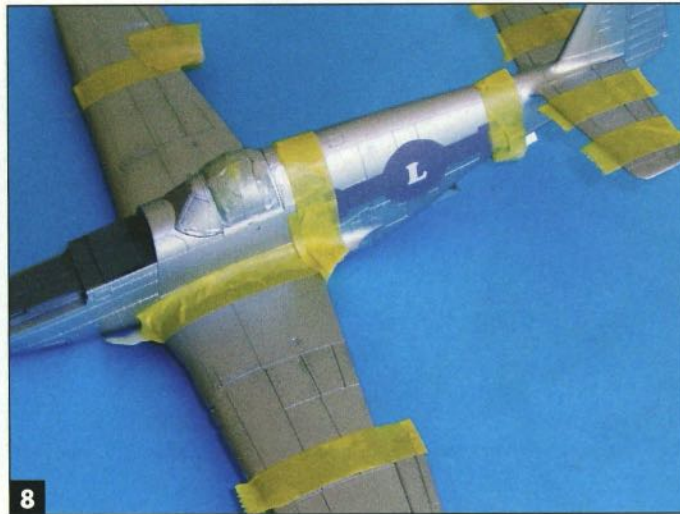
There are several methods for creating a

natural-metal finish on a plane. Some like to use Alclad II, while others prefer Tamiya titanium silver or Testors metallic silver. For this model, I chose Humbrol enamels: polished aluminium (No. 27002) and metallic chrome silver (No. 191) work well as base colors for a natural-metal finish.

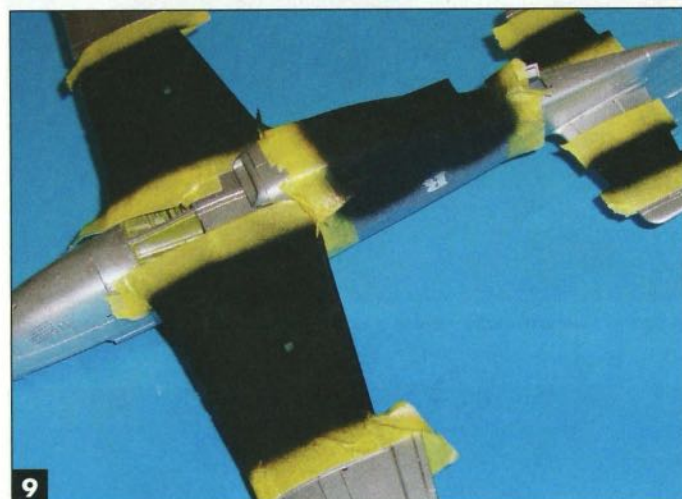
I airbrushed a coat of metallic chrome silver, **7**. After 24 hours, I prepared for one of the key steps of the painting process: the *Big Mac Junior* markings. I sprayed Testors U.S. olive drab for the anti-glare section of the fuselage. I used the masks included by



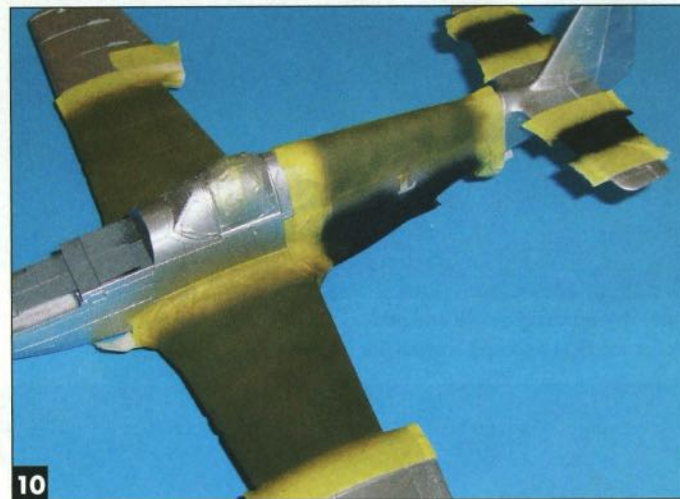
7 Airbrushed chrome silver over the P-51 created a natural-metal base.



8 Masks to leave room for the middle fuselage's national insignia were provided in the Lifelike Decals set.



9 Raúl sprayed the areas of invasion stripes flat black before further masking and painting to make the stripes.



10 Raúl carefully airbrushed olive drab on the upper fuselage, avoiding the tail and belly.

Lifelike to mask the middle fuselage section to account for the fuselage insignia, **8**.

When I was happy with the masking, I sprayed thin coats of Tamiya flat black on the lower fuselage and the lower surfaces of the wings to start the invasion stripes, **9**.

Moving to the upper fuselage, I airbrushed olive drab in thin layers, making sure not to paint areas already covered in flat black, **10**. After the paint dried, I masked for the invasion stripes on the wings, **11**. I sprayed white underneath and olive drab mixed with flat black for the painted-over stripes on the upper surfaces. I airbrushed the black group lines on the tail, even though Lifelike Decals provided them as a decal. Once the model was dry, I removed the masks, **12**.

Weathering

I prepared the surface for weathering by spraying several coats of Tamiya acrylic clear. I'm sure this is common knowledge

but, just in case, let me repeat it: If you weather a model using enamels, then the previous coat should be acrylic. On the other hand, if you weather using acrylics or water-based paints, then the previous coat must be enamel. I have also noticed that enamel washes flow more easily on a gloss surface. Therefore, I recommend you not apply a matte clear coat until the very end of the painting.

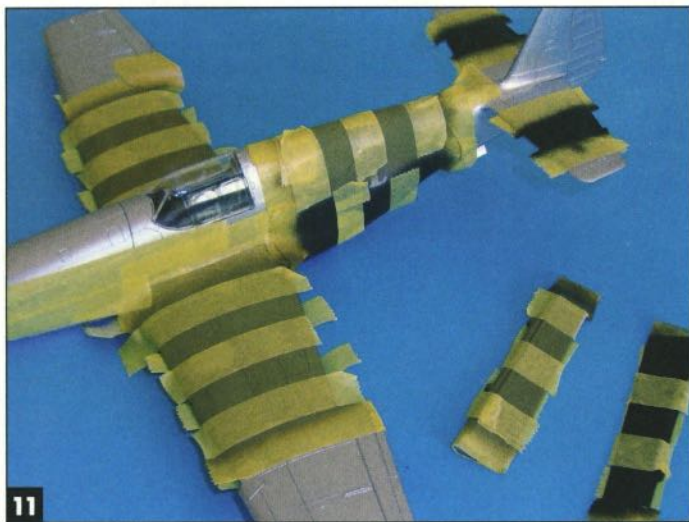
I applied thin washes of Humbrol gunmetal (No. 27004) on selected panels. This is a must for a realistic natural-metal finish. Keep in mind that even when they left the factory, these planes had several shades of metal showing on different panels. I changed the shades by mixing more or less gunmetal with thinner. I masked and airbrushed the larger panels and brush-painted the smaller ones. As you do this, some of the panel lines will become defined too. (Note: Yes, my painting was a bit backwards. I should have sprayed the panels

before painting the olive drab and invasion stripes. Lesson learned.)

Next I applied another coat of Tamiya clear, then the Lifelike decals. The decals responded great to Micro Set and Micro Sol. Another coat of gloss clear will get everything ready for the next weathering steps.

Using other metallic colors (like Tamiya flat aluminium) and a very thin brush, I added paint chipping over the previous shades of metal. Three or more shades of metal will be now evident, especially in areas where it would have been worked on regularly by the crew.

Finally I applied a new coat of Tamiya clear over the plane. I defined panel lines with a mixture of Humbrol flat black and red brown diluted in Humbrol thinner. For certain lines, like the ones on the flaps, rudder, and vertical stabilizer, I used only flat black to create a deep, dark appearance in these areas. I just swiped a cotton swab in



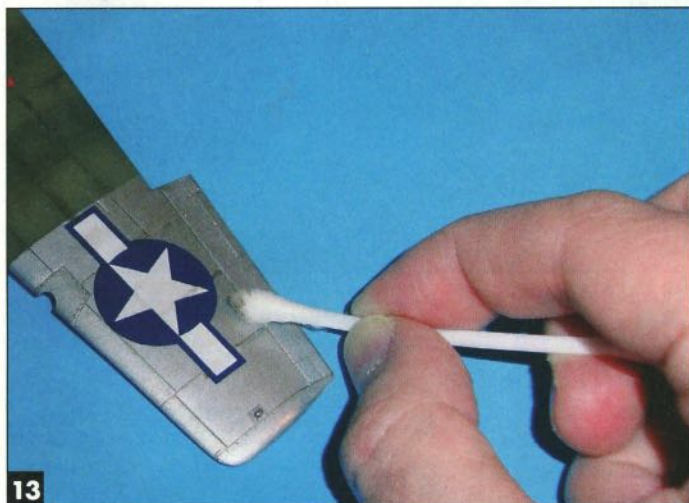
11

Raúl masked the wings and fuselage again before completing the painted-over invasion stripes.



12

Even though Lifelike provides decals for them, Raúl airbrushed the black group lines on the tail.



13

A cotton swab absorbed excess wash and created dusty streaks.



14

Raúl added chipped paint to the belly of the plane.

the direction of the airflow on the wings and in different directions on the fuselage to remove any excess, **13**. This created a realistically dirty finish in dark red brown, similar to accumulated dust during heavy use of the plane.

For a final touch, I dry-brushed Humbrol dark brown around the exhausts and machine guns. I used the same weathering techniques for the landing gear and propeller. Never forget chipping and weathering in the "never seen" lower parts, **14**.

These weathering steps can be repeated as many times as you want. Remember, the key is to not do too much at once. It is better to apply several layers and complete the weathering slowly, allowing for corrections if needed.

After spraying a few more coats of Tamiya clear and letting the model dry for at least two days, I applied thin coats of Humbrol matte clear, being careful to not spray too much at once. With that, my very first Mustang was ready for display. **FSM**



15

After a little paint and a lot of decals, Big Mac Junior is ready for Capt. John Brown Jr.

History You Can Model

By Mark Hembree

North American F-86 Sabre



Col. Benjamin Davis Jr., commander of the 51st Fighter Interceptor Wing, leads an F-86F Sabre formation during the Korean War. In WWII, Col. Davis was commander of the Tuskegee Airmen.

American aircraft briefly enjoyed an advantage early in the Korean War until the appearance of the Soviet-built MiG-15. Likewise, the tables were turned again with the arrival of the North American F-86 Sabre.

Both aircraft were a giant leap from the best fighters of World War II, slightly more than two years distant when the XF-86 first flew on October 1, 1947.

The Sabre had been designed for the U.S. Navy in 1945 as a straight-winged aircraft developed from the FJ-1 Fury. However, knowledge gleaned from the Germans after WWII resulted in a swept-wing fighter capable of far greater performance.

Other advancements, such as the movable "all-flying tail" and hydraulic controls, made the Sabre more stable and maneuverable than any previous jet. While still in development in 1948, the F-86A set the first of several world speed records at 570 mph. Although it was not considered a supersonic aircraft — it was rated with a cruising speed of 540 mph and a top speed of 685 — the F-86 could (and often did) exceed Mach 1.

The Sabre went into service with the U.S. Air Force in 1949. The Korean War started on June 25, 1950, and when

Chinese MiG-15s appeared over Korea in November, three F-86 squadrons were rushed to the front. They found the MiGs could fly higher, and their cannons (two 23mm and one 37mm) were nothing to triffling with. But Sabres could dive faster and were steadier at speed. The MiGs were always a handful as dogfights played out in "MiG Alley," along the Yalu River at the Chinese-Korean border. But with developmental improvements and experienced pilots, Sabres began to even the score.

The F-86A, as well as variants E, F, and H, were designed and built as day fighters or fighter bombers. All-weather interceptor versions D, K, and L were characterized by a black radome nose that gave the plane a much different profile from the wide-open intake of the original Sabres. Against the later F-86s, the MiG-15 had finally met its match.

As effective as it was, the F-86's heyday as an air-superiority fighter was short-lived. Production ended in 1956, and by the end of the 1950s the Sabres were giving way to the "Century Series" of jet fighters. However, the U.S. Air National Guard as well as several other nations continued to fly them. The last left U.S. service in 1970 — but the Bolivian air force flew them until 1994. **FSM**



F-86D Sabre at the National Museum of the United States Air Force, Wright-Patterson Air Force Base, Dayton, Ohio.

Modeling the Sabre

- 1/144: F-Toys (D), Trumpeter (F)
- 1/87: UPC (F)
- 1/72: Academy (E, F); Airfix (D, F); AMT (F); Frog (E); Fujimi (F); Hasegawa (D, F); Heller (F); HobbyBoss (F); Hobbyparts (F); Italeri (F); Matchbox (A, F); MPC (D); Rareplanes (D, H; vacuum-formed); Special Hobby (H, K); Testors (F)
- 1/48: Academy (F); Entex (D); Esci (E); Hasegawa (F); Italeri (F); Lindberg (A, D); Monogram (with MiG-15); Revell (D)
- 1/32: Hasegawa (F); Italeri (F); Kinetic (F)
- 1/24: Lin



Questions about your *FineScale Modeler* subscription?

- Change of address
- Pay your bill
- Renew your subscription
- Give a gift

GO TO

<http://Subscribe.FineScale.com/Help!>

**FineScale
Modeler**
The essential tool for model builders

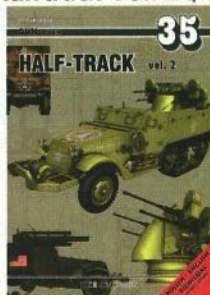
**Prices that
will Blow
You Away!**

2011 Catalog #2 ONLY \$8
Available OCTOBER!



NEW 1/32 Aber!
6 Barrels for P-51
\$30.50

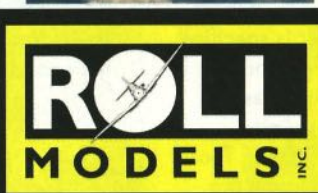
**AJ Press M2/M3
Halftrack Vol. 2 \$45**



1/72 Eduard F6F-3
\$18.75



**Israeli M1
Super Sherman \$41.25**
**COOL GREAT
STUFF! PRICES!**



www.rollmodels.com
orders@rollmodels.com
Phone 763.545.0399
Fax 763.545.0899
P.O. Box 27066
Golden Valley, MN
55427-0066 USA

NINJA LESSON #47:

**Always arm yourself
with the best equipment.**



Powerful - Compact - Reliable

iwata
MEDEA www.iwata-medea.com



iwata

Precision Tasks Demand Precision Tools



Professional Sprue Cutter - 2175ET

Designed for scale modelers by a scale modeler!
Essential tools for trimming delicate,
tightly spaced parts.
Make clean, close cuts - no pinching or twisting.
Large, comfortable grips for ease of use and
greater control.



Professional PE Scissors - 9180ET



Xuron® tools can be found at hobby stores worldwide.
For more information, visit our website at www.Xuron.com
or call 207-283-1401

**XURON
CORP.**

Questions & Answers

A clinic for your modeling problems



By Mark Hembree

P-51D interior colors

Q What is the correct cockpit color for a P-51D Mustang in American service? Tamiya's new 1/32 scale kit (No. 60322) calls for "yellow green." I've seen "chromate green" in more than one article.

— *Darren Malak*

Winnipeg, Manitoba, Canada

A Regarding Tamiya's instructions, it looks like the color to which you refer is specified as a 2:1 mix of flat yellow (XF-3) and flat green (XF-5), respectively. Sometimes people call this "yellow green," "zinc chromate green," or "interior green." Those are different colors, but often people are talking about the same color.

In any event, I asked Dana Bell, a widely respected authority on aircraft color. He said: "Most of the debate on P-51 interior colors has to do with the early Allison-engined variants. But the P-51D is a good bit easier — the cockpit was ANA 611 interior green, a mixture of (yellow) zinc chromate primer and black also known as zinc chromate green. While the color could be described as a yellow green, I usually avoid that description to prevent confusion with an earlier color named 'yellow green' (a mix of yellow zinc chromate primer, black, and aluminum powder or paste).

"Seats also could be interior green, though some of them were painted dull dark green, a dark forest green, or pine green. And by the time P-51s were being used for the Korean War, some of them had been repainted with dull black cockpits to comply with newer cockpit regulations."

So, you see, the color most likely to be correct is the color you see in the specific aircraft you are modeling at the time the photo was taken. Outside of that, it can be tricky.

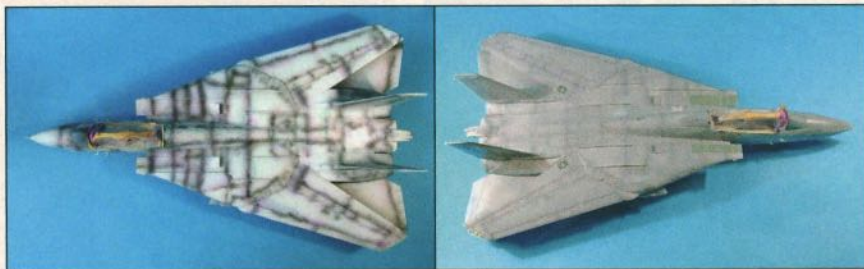
Printing decals

Q As a 75-year-old getting back into the hobby with these new models, I really appreciate your repeating old advice for us oldsters to catch up.

I am learning to make decals for nose art. How does one know which to use — the clear or the white film? Sometimes the colors disappear when I apply them and I must make two copies.

— *Glen Houpt*
Sioux City, Iowa

A Thanks for writing, Glen. To go straight



Fausto Muto's 1/72 scale Fujimi F-14 strikes a balance between exaggeration (heavily darkened panel lines) and subtlety (a finish with slightly shadowy recesses).

Pre-shading reviewed

Q I've seen references to pre-shading (including the May 2011 *FSM*) and understand the basics of how you airbrush the panel lines with a dark paint. Then, when you spray the basic base coat, the pre-shading is supposed to faintly show through. Doesn't the base coat hide all the pre-shading? How should you handle situations when you spray a second, different color over the base color (with camouflage, for example). Doesn't this hide the pre-shading even more?

— *Jim James, Orlando, Fla.*

A The key to pre-shading is to keep subsequent coats light enough to let the pre-shading show through a little. However, at its best, pre-shading is a subtle effect. So, even with camouflage, the pre-shading will show through just a little if the top coats are lightly applied. It shouldn't be obvious — just a hint of darkening at the panel lines.

to your question (and throw in some tips):

White works the best for detailed, colorful applications, and it is more opaque. Clear is better, though, for numbers and letters; you don't have to trim out the inner areas of characters like an 8 or a B.

Pay attention to whether the sheet you get is for an ink-jet or laser printer. (They'll be labeled as such.) When it comes time to print, use regular paper to test the size. Then print it out on decal sheet.

Regarding printers, an ALPS printer will print white. But, for most modelers, it's not really a practical option. Even if you can find one, they are mighty expensive. If you want white, you'll have to use white decal sheet and leave that area blank in the design of your image.

After printing, wait for the ink to dry. Then coat the printed decal with a gloss clear. Many use Pledge Future floor polish, a clear acrylic that won't attack the ink. We recommend Micro Liquid Decal Film, available at www.microscale.com. Wait a day

for the clear to dry, trim out the decal, and apply it as you would any other.

Even then, depending on the background color and the decal color, you may have to use double decals for the opacity you want. That happens to the best of modelers — it just depends on the situation.

Welcome back to the hobby, Glen. Twenty years ago, custom decals were mostly made by people with professional experience in graphic arts. These days, lots of people design and print their own decals. How times have changed!

Washing resin parts

Q I just purchased my first resin figure set. I am used to regular styrene kits, and I have heard modelers talk about starting by washing the parts. I am not sure what to do about resin parts so the paint will stick.

— *Cameron Kirkland*
Noblesville, Ind.

A Whether it's an injection-molded plastic

kit or a resin casting, before you start building it's a good idea to wash the parts to remove oils and other residue from the manufacturing process. Not only will it improve paint adherence, but glues will work better.

You can use dish detergent as a mild cleaner for styrene parts. For resin, go a little stronger; soak the parts in bleach, brush them off (an old toothbrush works well), rinse them thoroughly, and let them air dry.

Another, stronger cleaner is Westley's Bleche-Wite. It's actually a tire cleaner.

With bleach (and especially with Bleche-Wite), be sure to wear rubber gloves and eye protection.

Airbrushing tiny things

Q I am an avid builder of 1/72, HO, 1/76, and 1/96 scale models. I'm about to embark on a historic diorama set in the Pacific Theater of World War II and focusing on the island-hopping campaigns. Can airbrushing be used at such small scales, especially on the figures and vehicles?

—Tony Ring
Casselberry, Fla.

A No reason you can't use an airbrush, although masking gets difficult in those scales. Still, an airbrush can lay down such a fine layer that it's preferable in those scales if you can hit what you're aiming at. However, most people would hand-brush the figures.

Hand-brushing camouflage

Q What are your suggestions on how to paint camouflage schemes on armor and aircraft by hand-brushing rather than airbrushing?

—Robert Tong
Garden Grove, Calif.

A How well you can paint camouflage without an airbrush depends on the type of camouflage. Soft-edged camouflage schemes, such as the dappled schemes on German World War II aircraft, are difficult to replicate with a brush. You could use spray cans, leaving the edges of the masks slightly raised to produce a soft edge, if you use a light touch.

It is possible to paint hard-edged camo schemes with a brush. Again, a light touch and thin coats are key; you want to avoid ridges of paint buildup at the edges of each color.

If you are going to paint with a brush, allow me to recommend Vallejo paints. They're the best I've used for hand-brushing; they level nicely, so the brush marks fade away to a smooth, solid color. Ask for them at your hobby shop. **FSM**

ARA Press

The Spaceship Enthusiasts'
One-Stop Data Shop!

2 New LiS Books!

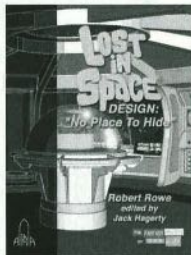
Lost in Space Design: "No Place to Hide"

by Robert Rowe

- 80 pages on 80# coated stock
- 9" x 12", Softcover, Perfectbound
- 140 photos, illustrations and tables
- Technical Appendix

Robert Rowe was given total access to the Fox Television archives when he started researching *Lost in Space* in the mid '80s. To make this invaluable information available to the show's fans world-wide, Robert has started a series of *Lost in Space* Design books. This first one covers the creation of the original pilot episode, "No Place to Hide."

Only \$19.95! (plus shipping)

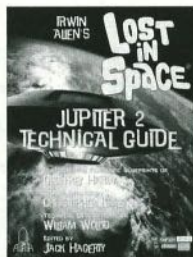


Jupiter 2 Technical Guide

by C. Krieg, W. Wolod and G. Hardy

- 110 pages on 80# coated stock
- 9" x 12", Softcover, Perfectbound
- Hundreds of photos and illustrations
- Foldout Blueprints of the *Jupiter 2*

This book takes over where previous fan generated "tech manuals" have left off. Written by professionals and edited by an aerospace engineer, it makes the hardware as real as possible while remaining true to the stories.



Only \$24.95! (plus shipping)

Visit our website to order on-line.
All Credit Cards and PayPal accepted.
Call or write "info@arapress.com"
for shipping options.

Sales Tax added for CA orders

Follow us on Facebook!



ARA Press

785 Jefferson Ave.
Livermore, CA 94550
(925) 455-1143
www.arapress.com

Black Styrene Sheets

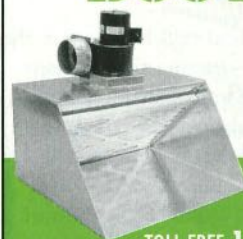
UV-resistant

evergreen
scale models

Call or write for free product information
18620-F 141st Ave. NE, Woodinville, WA 98072
Toll-free: 877-376-9099 Fax: 425-402-7948
www.EvergreenScaleModels.com

PAINT BOOTHS

4 Models
Available!



Starting at
\$245.00

TOLL FREE 1-877-872-4780

Check out our Web site!

WWW.PACEPAINTBOOTH.COM

stepSander®

Sanding Tools



New! Crown Sander
tool for sanding inside
curved parts, a flat
surface planer, plus the
original offset sanding head!

CS220 + CS320 grit tools
Includes refill belts!

CS220

CS320
1.75"/45mm L

Visit us at www.stepsander.com

If you're ready to start building models, then you're ready to subscribe to **FineScale Modeler** magazine. Whether you want to build aircraft, armor, ships, cars or figures, you'll get the how-to information you need to take your modeling skills to the next level!

Subscribe online at
www.FineScale.com

Reader Tips

Solutions and innovations



By Aaron Skinner

Another way to assemble tracks

This is an easy way to glue individual-link tracks together. All you need is a 12" ruler and some 40mm Tamiya masking tape. Cut a piece of tape 14" long and place it sticky-side up on the ruler. Fold the ends of the tape over the ends of the ruler and secure it with smaller bits of tape. Now, stick the track links on the tape in line. Apply glue and you're all set to go.

— Benjamin Kluge
Hudson, Quebec, Canada

Prepainting mixer

When painting, it is always best to mix the paint thoroughly — getting the pigment suspended can take lots of shaking. As a matter of course, I drop a few BBs into a paint bottle when I first open it to help agitate. Even better, if I know that I will be painting later in the day, I keep the paint containers in my pocket; a full day of walking stirs everything up.

— Mike Hirsch
Cambridge, Mass.

Playing the repair blues

While building models, I occasionally break the plastic parts. But I've found a great way to repair them using short pieces of steel guitar string as reinforcement. I use .010", .013", .017", .026", .036", and .046" strings on my electric guitar, so I know exactly which bit to use. I drill holes in each section of the broken part, then glue a short piece of string inside the holes.

Also, the heaviest strings have wire wrapped tightly around a core. These strings can be used for tubing, etc. They're also cheap — a \$5 set of strings will last you a long time.

— Bill Reese
Centennial, Colo.

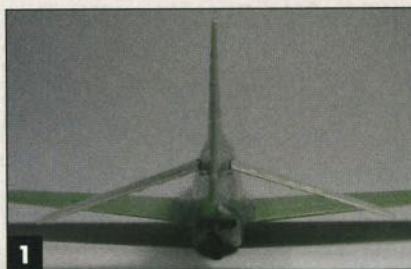
Fine masking tape

I found a roll of printed circuit tape at a thrift store. It is about 1/32" thick and good for compound curves (but not acute angles). It's great for a separation line on a two-tone paint job. After I place the tape, I fill in the larger areas with regular masking tape or liquid mask.

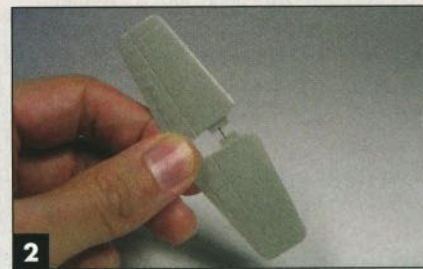
— Randy Alberts
Albuquerque, N.M.

Less messy acceleration

I've discovered that just the fumes from super glue accelerator will set the glue. This



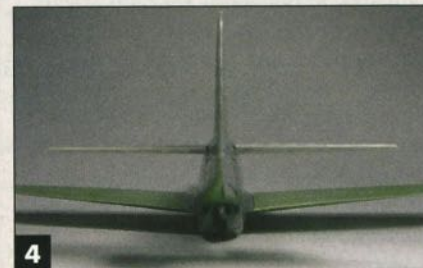
1 Droopy tail planes make this Mustang look more like an F-4 Phantom.



2 Pablo drills holes in the locators for each stabilizer to accept brass rod.



3 After gluing the rod into one tail plane, Pablo attaches it to the model.



4 Then Pablo slides the other tail plane onto the brass rod and into its proper place.

Brass pin for square tail surfaces

Sometimes tail surfaces are slightly undersize and don't square with the tail fin, **1**. My solution is to use a small brass pin to connect both tail surfaces and keep them level. Drill two holes in each tail surface (make sure that they line up) and connect the pieces with a brass pin, cut to fit. The pin will keep both surfaces on the same plane, **2**. Place one of the tail surfaces into its slot, making sure the brass pin is threaded through the fuselage, **3**. Then place the other tail surface. You'll have a nicely aligned, square tail, **4**.

— Pablo Bauleo
Fort Collins, Colo.

means no messes on the model and less chance of damaging the paint. I usually dip a microbrush in the accelerator and wave it near the join, but a cotton swab will also work.

— Kim Cargill
North Hollywood, Calif.

Make a movable 1/700 scale gun

I have found a way to make the barrels in the turrets of the main guns on 1/700 scale ships posable. I cut a piece of Parafilm M as wide as the cavity on the bottom of each turret and 1 1/2" to 2" inches long. I stretch the film until it is tacky, then push the barrels through the film with the horizontal axis of the barrels perpendicular to the long

side of the film. After rolling the film to the base of the barrels, I fold the excess around the base. Then I insert the barrels in the turret. If the fit is too tight, I remove a little of the film. If the fit is right, I can set the elevation of the barrels at various angles and the film will hold it in place.

— Kevin Kuo
Syosset, N.Y.

FSM wants you!

Send us your tips! Visit FineScale.com and click on "Contact Us." Or, you can mail your idea to us at Reader Tips, FineScale Modeler, P.O. Box 1612, Waukesha, WI 53187-1612.

For The Precise Model Miniaturist

Alpha Abrasives
www.alphaabrasives.com

Flex-i-File
www.flex-i-file.com

Professional Plastic Welding System **NEW!**

Order **ONLINE**
Or Call Toll Free **800-506-9618**
WE SHIP WORLDWIDE

Non-toxic • 0% Shrinkage • Great Adhesion • Superior Strength & Detail

PO Box 344
River Falls, WI 54022
1-800-261-2837

AVES®
Made in the USA

Manufacturers of Fine Clays & Maches

Thousands of Uses!
Customize & Fabricate
Perfect for figurine conversions, original
sculpt, kit bashing, tanks, boats & planes.

Ask your
hobby store to sell
Aves products!

Create your own tarps, hats, coats,
bed rolls, ground work, rocks
... and so much more!

World War II German Volksturm
Officer bust by Joe Porter
Created with Apoxie® Sculpt

www.avesstudio.com

**PLANE
CRAZY
ENTERPRISES**

Navy, Marine, USAF Patches,
Aviation T-Shirts, Flight Jackets,
Name Tags, Blood Chits and more!
We've got the hard to find "stuff"
An Official Supplier to the Military

Phone/Fax: 303-973-7969 Email: carl@plane crazyenterprises.com
www.plane crazyenterprises.com

Profiform 200 & 320.
Compact precision sheet-metal working
machines for cutting, bending and punching.
Also, sheet-metal rolls & circular metal saw
Call or write for information.

CH-Imports

3410 Deep Green Dr., Greensboro, NC 27410
Phone: 336-282-9734 Fax: 336-288-3375
jbollini@triad.rr.com
Precision equipment from Switzerland

Get more of what you **LOVE**
about *FineScale Modeler* ...

ONLINE!

You'll get ACCESS to:

- Over 1,000 model kit reviews
- Early access to the latest model kit reviews
- Bonus model kit photos not published in the magazine
- More than 12,000 product listings in our weekly updated Modeling Products Directory
- More than 100 how-to stories and other online exclusives

FineScale Modeler
The essential tool for model builders

GO TO www.FineScale.com TODAY!

M & Models

P.O. Box 434 Oak Lawn IL 60454-0434
Phone/Fax (708) 423-7202
(Mon.-Fri. 4:00-7:00PM Sat. 10:00-5:00 CST)

++ Visit our store at 9239 S. Cicero Ave. Oak Lawn, IL ++

Miniarm 1/35 Scale	26.00	Lion Marc 1/35 Scale	9.99
56 T-42 Road Wheels	32.00	22 75mm Sherman Late	12.99
57 T-55(Late) / T-62 Track	55.00	27 2cm KwK 30 Barrel	
58 T-55AM Conv-Tam. Kit	16.99	Tasca 1/35 Scale	
Aerobonus 1/48 Scale	16.99	21 M4A3E3 "Jumbo"	61.95
10 CH-25MP Air to Ground	16.99	23 M4A3E8 Korean Sher.	61.95
11 CH-25MP (AS-10)	9.99	Legend 1/35 Scale	
14 AB-500 Aerial Bomb	9.99	27 M1151 Detail Set	21.99
16 R-60 (AA-8 Archer)	28.00	Wolf W.M.I.K. Aggre. Tires	14.99
SP Designs 1/35 Scale	22.00	32 SAS Jeep Wheel Set	15.99
41 T-64A/B Lower Hull	8.00	33 SAS Jeep Conv-2 vehicle	44.99
44 T-72 A/E Early B Front	34.00	Tiger Models 1/35 Scale	
Tiger Models 1/35 Scale	150.00	34 T-62M Conversion	54.99
01 Flak 88 Conversion	40.00	Phoen Decals 1/32 Scale	
05 Matilda Mk.IV Conversion	55.00	20 Albatros 5-col Loz. Blue	55.00
01 Blü-Tack	6.99	10 Rumses DevilJasta5	50.00

Visit Our New Web Site
www.home.earthlink.net/~mmmodels/
Available Aber, Vallejo & Model Air Paint & Accessories

Ordering Instructions: No Stamps or C.O.D.'s
IL Residents Add 10.00% Sales Tax
Postage and handling add:
\$10.00 to \$50.00 \$7.00
\$50.00 and over \$8.75

Send \$5.00 for our 152 page VOL 9 Universal Catalog.

**STYRENE
PLASTIC
SHAPES,
SHEET &
MORE**

- Triangular & Square Rods
- .010 thru 3/16" Rectangular Strips
- Round, Half-Round & Quarter-Round Rods
- Hexagon & Pentagon Rods

Send \$5.00 for our 152 page VOL 9 Universal Catalog.

Plastruct
1020 South Wallace Place, Dept. FSM10
City of Industry, CA 91748

Workbench Reviews

FSM evaluations of new kits on the market



Tamiya Mustang out in front of herd

Tamiya's P-51D has to be one of the most anticipated aircraft models in recent times. With the growing popularity of 1/32 scale, a new, up-to-date P-51D is sure to be in high demand.



Kit: No. 60322 **Scale:** 1/32

Manufacturer: Tamiya, from Tamiya America, 800-826-4922, www.tamiyausa.com **Price:** \$165

Comments: Injection-molded, 550 parts (17 magnets, 10 fasteners, 16 metal rods, 106 photoetched metal, 10 vinyl polycaps), decals **Pros:** Great engineering, flawlessly executed **Cons:** Tricky flap fit; gap around tail wheel bay; seams on tires

On opening the box, my first reaction was *wow!* They pulled out all the stops on this one! Cleanly molded in gray plastic, Tamiya's all-new Mustang is at the highest standard for engineering, molding, and fidelity of detail. Exemplary of the deluxe nature of this big kit is a data book/modeler's reference with color pictures, a synopsis of Mustang development, and profile drawings that illustrate the placement of markings for the three aircraft covered by the decal sheet.

The list of construction options is lengthy: two pilot figures; two tails; three canopy styles; two exhausts; wing-gun details; complete Packard Merlin engine; removable engine panels; and multiple cockpit configurations. And that's a short list. *Whew!* The model can be depicted on the ground or on the provided stand for an inflight pose.

I started by carefully reviewing the instructions. It appears that Tamiya has put serious consideration into the sequence of events, so deviate from the directions at your own risk. I found that constructing the

subassemblies and painting these as the build progressed worked well for me.

Magnets are used throughout the construction to support the numerous removable panels; there are 17 magnets dispersed about the model.

Construction began with the engine.

... PULLED OUT ALL THE STOPS ON THIS ONE!

Having built the Tamiya 1/32 scale Spitfire, I found that most parts were familiar. The engine went together easily with no problems. Decide which exhaust you are going to use to be sure to install the proper back plate for the pipes.

Of the two tail sections provided in the kit, one is for the original D model without the tail fillet; the second has the fillet. Note that the kit features the later-production straight-profile fillet. The early version of the tail fillet had a slight curve in its profile. The tail's attachment to the main fuselage was excellent, with almost all the separate panels and modules fitting perfectly.

The tail-wheel area is modular to allow posing the gear up or down. This is where I



found the only gap that need filling.

With this kit we finally get an accurately portrayed P-51 landing gear bay; the bay is open back to the wing spar.

Even if you plan to close up the gun bays, you should still install the wing guns' mounts; they provide detail that can be seen through to the shell-ejection ports.

The wing fit to the fuselage was superb; the root needed no filler or adjustment.

All of the flying surfaces are movable, with photoetched-metal hinges and metal rods for the pivot points. Check the fit prior to gluing the surface together. I had fit problems when inserting the photoetched-metal hinge into the slots in half the cases (one wing and one elevator). There are two types of elevator parts — fabric- and metal-covered — so make sure you don't mix the two.

The landing-gear assembly is well thought out and attaches strongly to the wing. It is screwed in place, which allows it to be removed for a gear-up display. The vinyl tires do have a visible seam.

Tamiya provides a different canopy for each set of markings in the kit. I believe this may be the first kit to accurately present the initial version that was associated with the first D series planes produced. If you plan to make the canopy movable, note that Part Q2 should be added as late as possible (unless you mask the canopy in place during painting). If you add it too soon and glue it into position, you won't be



In keeping with the standard set by previous 1/32 scale kits, Tamiya's Mustang includes a detailed Packard Merlin engine with magnets to align scale thin cowl covers.

able to insert the slide guide into the fuselage slot.

Painting masks are provided for the clear parts, but you will need to cut these out of the sheet yourself.

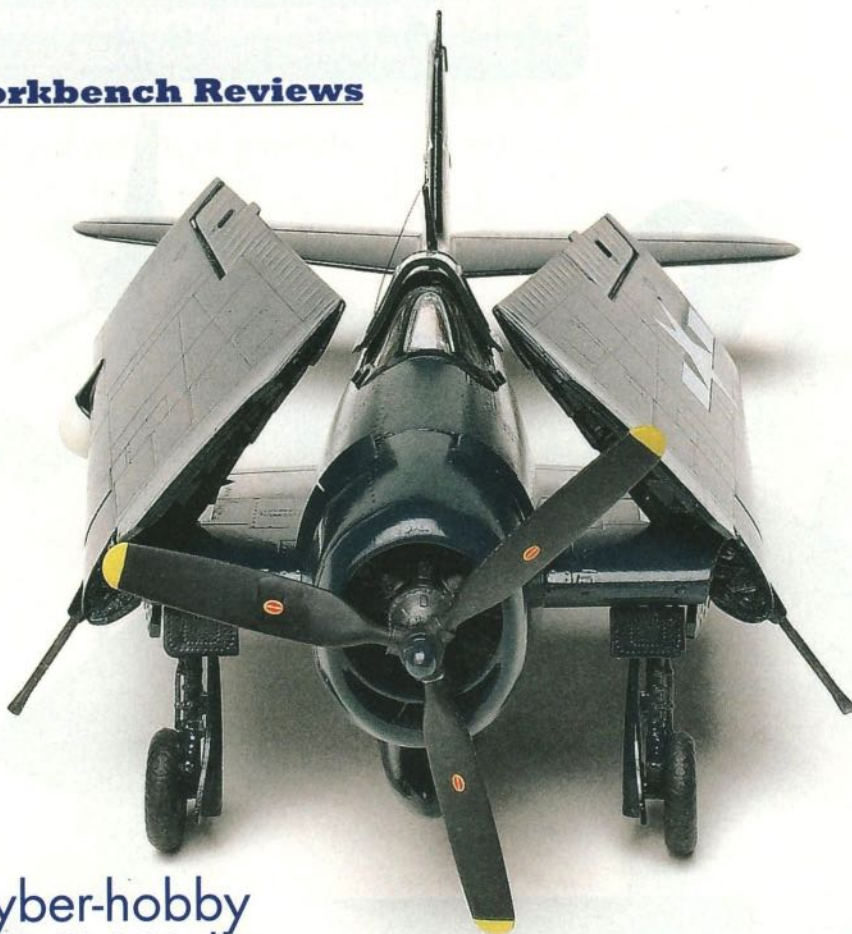
I painted my Mustang with both Tamiya spray and acrylic colors. For my plane, *Glengary Guy*, the instructions called for olive drab as the top color. I deviated by using Tamiya XF-81 Royal Air Force dark green because I believe field-applied camouflage would have been done with more readily available RAF stocks.

The decals are for three P-51s of the Eighth Air Force. These applied well over a gloss undercoat. But take care — they are a bit fragile.

My main reference was *Building the P-51 Mustang*, by Michael O'Leary (Specialty Press, ISBN 978-1-58007-152-9). Also useful was *20th Fighter Group*, by Ron MacKay (Squadron, ISBN 978-0-89747-368-2), which has photos of *Glengary Guy*.

I completed my Mustang in 54 hours. To say I was pleased with the result is an understatement. When I was finished I took half an hour and just stared at it. The engineering and execution in plastic is just brilliant! While it's not for beginners, I do not hesitate to highly recommend Tamiya's new Mustang to experienced builders. They won't be disappointed.

— Jim Zeske



Cyber-hobby F6F-5N Hellcat

A newcomer to 1/72 scale aircraft kits, Cyber-hobby is best known for complex armor kits with lots of parts. If you like that sort of challenge, Cyber-hobby's Hellcat is right up your alley. Molded with beautiful recessed detail,

the sprues hold just about everything you could want in a Hellcat: folded-wing option, three different types of main-wheel tires, a detailed cockpit, two types of radar pods, plus bombs and rockets — the whole shebang. But a lot of the kit's detail is hidden inside the fuselage with no removable panels to reveal it.

This particular kit is for the late-war F6F-5N night fighter with Sperry APS-6 intercept radar in a streamlined fairing built into the leading edge of the right wing. Parts for an underwing APS-4 radar pod are also on the sprues, forecasting an F6F-5E kit.

The cockpit goes together quickly and features dainty photoetched-metal harness belts. The engine accessories and mounts forward of the instrument panel are nice, but you'll never see them. The same goes for detail behind the cockpit.

You can add the provided racks and stubs to the wings and mount a full set of bombs and rockets, but I wanted to go with the straight night fighter. The gun barrels with the extended inboard cannon barrel are molded together as an insert.

Each main-gear assembly is made from 10 parts, some extremely small, and putting it all together is complicated by the instructions. Some diagrams show one assembly

with part numbers supplemented by another set of numbers in parentheses, indicating the parts that are used on the "other" side. OK, understood — but sometimes the diagram shows the parts that are indicated with the parentheses. Confused? Just study the parts and dry-fit, and you'll eventually figure it out.

The cowl is a five-part assembly that looks a little flat at the front. I knocked down the corners of the front rim with a little sanding. You have a choice of canopies, a one-piece closed part or a two-part open option. The sliding hood is a little too thick to properly sit over the turtledeck when open.

Cyber-Hobby provides separate ailerons and rudder, but elevators are molded with the stabilizers.

The highlight of the kit is the folded wing. Alternate sets of hinge-point inserts are used, depending on whether you want the wings folded or extended. The diagrams don't clearly show how the fingers of the inserts fit into the wing's center section, so, once again, dry-fitting is recommended. I didn't try to build the extended wings.

The Hellcat's wings had an unusual set of panels and drop-down doors on their undersurfaces, outboard of the main-gear wells and along the wing-fold separation line. Panels B7 and B8 (mis-labeled B5 and B6 on the assembly diagram) mount only to the forward end of the opened wheel bay, and the drop-down doors mount to them. They just stick out with no support at the rear when you have the wings folded. It looks wrong, but it's correct.

I left the outer wings off until final assembly. The radar pod is molded in three pieces and attached to the wing. Compared with photos, the pod is much too small, and it looks even smaller next to the oversize pitot tube provided in the kit.

The three marking choices provided are for overall gloss sea blue Hellcats, so painting was a snap — even the insides of the wing structure and wheel wells were often painted gloss sea blue. The decals went on OK, but are flat finished and required an additional overcoat of clear gloss.

You can save time building Cyber-hobby's Hellcat if you ignore the hidden details fore and aft of the cockpit. With them installed and the wings folded, my Hellcat took 22 hours to complete. Is it the ultimate Hellcat in 1/72 scale? Time will tell. But, for now, it's the go-to kit, especially if you want the wings folded.

— Paul Boyer



Kit: No. 5080 **Scale:** 1/72

Manufacturer: Cyber-hobby,
www.dragon-models.com, from
Dragon Models USA, 626-968-0322,
www.dragonmodelsusa.com

Price: \$29.95 **Comments:** Injection-molded, 135 parts (4 photoetched metal), decals **Pros:** Great interior detail, weapons options, folded-wing options

Cons: Details between cockpit and engine hidden; confusing instructions with complicated assemblies; undersize radome



Skunk Models Workshop HH-60J Jayhawk

In the 1980s, the U.S. Coast Guard needed a new helicopter to replace its aging fleet of HH-3F Pelicans. From the Sikorsky S-70 family, the new HH-60J represented many advantages over its predecessor, being lighter and faster with GPS navigation, weather radar, and much-better electronics. From 1990-1996, 42 of them were made.

Based on Italeri's S-70 helicopters, the Skunk Models Workshop boxing provides a fairly accurate HH-60J. Details include a full photoetched-metal set for the cockpit, with pre-painted seat harnesses, instrument panel, flight-control switches, and foot controls. Also included is a photoetched-metal rescue basket and a helicopter landing pad.

The styrene is crisply molded with little flash. The recessed detail is nice, but a little shallow in some areas. Clarity of the clear parts is good with no scratches.

Assembly begins in the cockpit, where most of the photoetched metal is; pay close attention to the separate instruction sheet for the metal. The crew compartment is grossly inaccurate. Only one seat is provided, and there is little detail.

The fuselage halves close around the completed cockpit/crew compartment. This join leaves a large seam that must be filled and sanded.

The instructions add the rear rotor assembly during the second step, but I waited until the very end to add it; painting around this assembly would be nearly impossible. The same goes for the exhaust panel (Part J13).

The only major hiccup during assembly is the front windscreen; it simply does not fit. I managed to get it close by gluing it in place little by little and taping the corners down tight while the glue was drying.

The rest of the build went very smoothly. If your display space is limited, you can pose the rotors folded.

I painted my Jayhawk with Testors Model Master Paints.

I masked the clear parts and applied insignia white, then masked off all but the orange areas and painted with a mix of Chevy engine red and international orange for a realistic Coast Guard orange. The front of the chopper is painted with Floquil grimy black.

The decals were simply outstanding, thin and pliant when laid in Micro Set over a gloss coat. I saw no silvering, even on areas I had missed with the gloss. I did notice that the orange color bled through some of the white decals, however. The kit provides four different sets of markings.

My model took about 30 hours to com-

plete. It was not an easy build — I wouldn't recommend it to novices — but I did enjoy it, and the HH-60J will look great parked next to the Coast Guard HH-65 Dolphin on my display shelf.

— Chris Oglesby

**ONLY MAJOR
HICCUP ...
IS THE ...
WINDSCREEN**



Kit: No. 48010 **Scale:** 1/48

Manufacturer: Skunk Models,
www.skunkmodelsworkshop.com,
from Modelcraft Inc., 604-437-1166,
www.modelcraft.com **Price:** \$59.99

Comments: Injection-molded, 195 parts
(24 pre-painted photoetched metal), helo
pad diorama base, decals

Pros: Pre-painted photoetched metal is a
huge plus, including a rescue basket;
high-quality Cartograf decals

Cons: Fit of the parts is sub-par, espe-
cially the windscreen; inaccuracies in the
crew compartment



HobbyBoss F-84E Thunderjet

The F-84 Thunderjet was among the first generation of jet-age fighters. It came to fame during the Korean War as a ground-attack fighter-bomber.

The HobbyBoss F-84 comes molded in nine sprues of medium gray plastic plus two clear sprues, nine white-metal parts, and

three vinyl tires. Three decal sheets are provided.

You get a choice of two seats (early and late). Shaped metal weights fit nicely under the gun deck and the machine-gun ammo tracks. You also get metal landing gear; plastic struts are included, but use the metal struts — the plastic struts are way too wiggly and will collapse. Also provided are separate control surfaces and flaps, a speed brake that can be positioned open or closed, and two JATO bottles. There is a choice of

wingtip tanks or conventional tips without tanks, but the F-84 just doesn't look right without the tanks. You also get two extra tanks for the wing pylons and seven pairs each of bombs from 250 pounds to 1,000 pounds, plus four rockets.

In the cockpit, I used seat No. 1. There are no seat belts or harnesses, which is disappointing. Instructions call for a field green interior, but it should be a dark greenish gray. The headrest should be dark gray.



Kit: No. 83207 **Scale:** 1/32

Manufacturer: HobbyBoss,
www.hobbyboss.com, from Squadron
Mail Order, 877-414-0434,
www.squadron.com **Price:** \$86.99

Comments: Injection-molded, 296 parts
(9 white metal, 3 vinyl tires), decals

Pros: Great fit, detail, and decals; shaped nose weights **Cons:** A few color callouts incorrect or missing; some vague instructions; no seat belts; no torque link on the nose gear



There's a lot to see underneath the big Thunderjet, including a poseable speed brake, JATO pods, and detailed landing gear and wheel wells.



On the gun deck, two shaped weights go underneath and one goes under the ammo tracks (Part E10).

In Step 3, the gunsight deck (or whatever you call it) is indicated as silver — even the gunsight glass. Most of this assembly was actually a pale goldish/copperish/greenish anodized finish. Part D57 and the gunsight glass frame were flat black. I was able to refer to good color photos in *F-84 Thunderjet in Detail*, Vol. 59 in the Detail & Scale series (Squadron/Signal, ISBN 978-1-888974-12-6).

Steps 4, 5, and 6 deal with the landing-gear struts. As I mentioned earlier, you should use the metal struts; the plastic ones aren't strong enough. A glaring omission is the absence of the torque link for the nose gear. Oddly, the wheel hubs are glued to the vinyl tires rather than joining the hubs and slipping the tires over them.

Steps 8 and 9 assemble the wings. The gear wells are separate assemblies that are glued to the lower wings. Ailerons and flaps are molded separately, but the mounting pins only allow for neutral ailerons and flaps down. You could snip the pins off and position them the way you want, but it

looks good as is. Control surfaces on the horizontal stabilizers and rudder are molded separately; I glued everything in a neutral position.

In Step 10, a radio electronics deck gets glued to the canopy proper. The location of Part C19 is mislabeled; it should go in front of the orange loop-antenna housing. You'll see the D-shaped locators.

I used only the 1,000-pound bombs on the inboard pylons; all the other bombs, rockets, and fuel tanks went into my spares box.

I painted the model with Testors Model Master and Alclad II paints; it took a little longer with the natural-metal finish because of Alclad's two-step process.

The decals went on nicely. The stencil decals are well done; instead of individual stencils, they are grouped. That's good and bad. It cuts down on placing individual decals, but with the thin decal film — and it is very thin — the stencils want to bunch up before you can prod them into place. (Lots of water helps.) Some of the stencils in the grouping didn't exactly line up with their panels, but I just separated them (with a No. 10 scalpel blade rolled through the clear film) and put them where they

ALL IN ALL, THIS MODEL WAS A JOY TO BUILD.



HobbyBoss crammed a lot of detail into its F-84E, including a detailed cockpit and landing-gear bays, JATO bottles, and a comprehensive set of underwing stores.

belonged. Once in position, the decals settle beautifully.

All in all, this model was a joy to build. It scales out perfectly. I took about 27 hours to complete it, some of that because of the metal finish, and it was well worth it. A little experience will come in handy if you take this one on.

Now we need a swept-wing Thunderstreak.

— Larry Schramm



Bronco Humber Mk.IV armored car

Bronco Models answers the call for more British armor with its release of the Humber Mk. IV, the last of this line of armored cars.

The model is molded in light gray plastic, with a sheet of photoetched metal, a vinyl belt of bullets for the turret machine

gun, and clear parts for the lenses and vision blocks. It's a "special edition" kit featuring clear parts to show off the interior and engine. (Opaque gray styrene parts are provided for the hull and turret, too.)

There is flash to remove from some parts, and the photoetched metal is so soft I

ruined several parts just trying to remove them from the fret. You'll need good tweezers and optical aids to see and assemble the many microscopic parts.

The instruction book is 39 pages with 50 steps and can be a little vague at times, especially when it comes to bending and placing the photoetched metal.

Painting diagrams are in color, and colors are called out along the way.

Decals provide markings for five vehicles.

Before you begin, you must decide if you are going to build the clear version; it plays a major role in how the vehicle is assembled. The box art will help you visualize the completed clear model.

I assembled the engine and transfer case and left them off until after I had painted the frame. I built the frame, leaving out the floor (Part D15) and interior parts, then added the engine, radiator, drive shafts, and mufflers to the frame. After that, I glued the floor and interior parts.

Decals are included for the gauges; I used a drop of Micro Kristal Klear for glass over the gauges. I painted the shells separately with SnJ brass and glued them to their racks after the rest of the interior was painted.

The tires comprise three parts, with the sidewalls and wheel rim as one piece and the tread as a separate piece. (Mind the direction of the tread.) A bit of filler was needed for a small gap in the sidewalls on

Sword Republic P-47N Thunderbolt



If you needed to make a decent P-47N model in 1/72 scale, and found the Heller kit too old and the Italeri kit too inaccurate, how would you go about it? You'd probably start with the best P-47D kit available, convert the wing, and make a new fin fillet, right? Well, now you don't have to — Czech manufacturer Sword has done it for you.

The kit holds fine exterior detailing and excellent resin components for the wheel wells, cockpit, and engine. Beautiful decals for three World War II Pacific "Jugs" are provided, too.

The main parts feature petite recessed panel lines and tiny, shallow recessed rivets. They look just right and appear to almost melt away after the model is painted. You can also see a slight unevenness in the surface on the outer edges of the ailerons and the wing roots. The wingtip navigation lights are molded into the wing instead of



each tire. The directions are vague about parts C58 and C59; they should be glued so the wider side is to the top of the suspension. If you are careful with the glue, the front wheels will be steerable.

Multiple panels make up the hull; the roof is glued to the floor. The floor is three separate pieces; if any section is misaligned, the separate hull panels will not line up properly. Otherwise, parts fit was good.

I used Testors clear parts cement for the clear plastic as well as any parts being glued to the outer walls of the clear hull, and super glue to join clear edges to painted sections. Several large parts were left off the walls to allow a better view of the interior. The

YOU'LL NEED GOOD TWEEZERS AND OPTICAL AIDS

directions call for opening holes in the hull and fenders, but many of these holes accept square pins; I cut off the pins and just glued the parts down. The clear parts are brittle, so use a sharp drill bit to avoid spider-web cracks around the holes. I left many of the smaller parts off the outer hull until it was completely assembled to prevent breakage.

No matter how hard I tried, I could not get the rear grille (Part D11) to mate properly with the rear hull plate (Part G3).

The color guide indicates Mr. Hobby, Hobby Color, Humbrol, and Tamiya paints. I chose Tamiya white (XF-2) for the interior, and Tamiya olive (XF-58) for the exterior. Smaller details are painted with Humbrol colors. The decals

being included as separate clear pieces.

The resin cockpit fits OK and looks great. The alternate tail-wheel mounts are not clearly shown in the instructions; the mount I chose seems undersize for the opening. The instructions also err in showing the main-gear struts with the oleo scissors to the rear when they should be to the front. You'll figure that out when you try to fit the doors to the struts as I did.

The big problem with the build was fitting the wings to the fuselage. The P-47N had a center section extension that moved the main gear wells outboard. The resin wheel wells fit OK into the wing halves, but I didn't notice that the wings were too thick (by about 1.5mm) until I tried to mate them to the fuselage. I made them fit at the top surface and evened out the fit at the bottom with piles of gap-filling super glue and lots of sanding. If I were to do another (and I will), I'll thin down the resin wells and shave down the inside faces of each

wing half until they fit the opening in the fuselage.

Adding the small details revealed a few more errors in the instructions. The drawings show the addition of one pointed blade antenna to the bottom of the left wing, but I couldn't find this in any photo. They show only one blade antenna flanking the fin fillet when there should be two; problem easily solved. The kit has a longitudinal slot for the belly fuel tank, but the small P-51 tank Sword gives you has no tab. I filled the slot with a strip of styrene.

I painted the model with enamels and Alclad II, then applied the kit decals with no problems. The instructions show the national insignia on the bottom right wing upside down.

Counting the extra work involved fitting the wing, I spent 28 hours on this Jug. The next one should go more quickly, now that I know what traps lay ahead.

— Paul Boyer



Kit: No. CB-35081SP **Scale:** 1/35

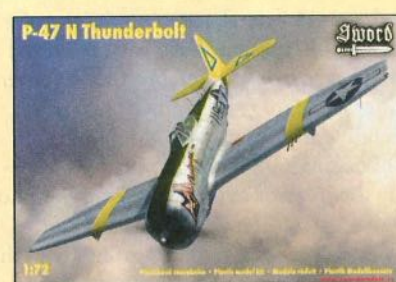
Manufacturer: Bronco Models, www.bronco-model.com, from Dragon Models USA, 626-968-0322, www.dragonmodelsusa.com

Price: \$58.95 **Comments:** Injection-molded, 758 parts (87 photoetched metal, 2 vinyl), decals **Pros:** Complete interior including engine; choice of clear or gray hull and turret parts; first Humber kit in plastic **Cons:** Vague instructions; photoetched metal is soft and easy to damage

went down well with no silvering. Building the clear version, I did only minimal weathering and dry-brushing.

This model took 55 hours, due to the high parts count and strategic, in-progress painting — two reasons why I recommend it only for experienced modelers. Bronco's kit captures the distinctive Humber, and the see-through option makes it an interesting model.

— Mike Scharf



Kit: No. SW 72039 **Scale:** 1/72

Manufacturer: Sword, www.swordmodels.cz, from Squadron Mail Order, 877-414-0434, www.squadron.com **Price:** \$32.99

Comments: Injection-molded, 82 parts (9 resin), decals **Pros:** Excellent resin wheel bays and cockpit; beautifully printed decals; good exterior detail; good clear parts; interesting combination of P-38 and P-51 drop tanks **Cons:** Poor fit of wing to fuselage; instruction errors

HobbyBoss Land Rover Defender Wolf WMIK

In service for more than 50 years, Land Rovers are ubiquitous in the British Army. Current models, based on the One Ten, or Defender chassis, have seen extensive service in Afghanistan and Iraq.

The Weapons Mount Installation Kit (pronounced *Wimik*) is a stripped-down vehicle with a strengthened chassis designed to carry heavy weapons.

There have been Land Rover models over the years, but HobbyBoss' is the first plastic kit of the current version.

Molded in tan plastic, the parts have good raised and recessed detail. The thickness of the parts is appropriate, especially the edge of the fender flares and the roll cage bars.

There are a few color callouts within the instructions, but the overall camouflage and decal instructions are on a separate color sheet with five-view drawings.

A complete engine and drive train is included, and the fit of the parts is good. I'm not sure why HobbyBoss molded each rail of the chassis frame in two parts. The fits are OK but leave long, ugly, and difficult-to-remove seams. There is a little wiggle room in the chassis construction, so take your time and check alignment as you go.

Axles and drive shafts are attached to the chassis in Step 2, trapping the transfer case. The instructions have you attach the transfer case to a bracket, but the alignment is unclear. Leave it loose until you mount the engine in Step 3.

The remaining parts fit very well, especially the interior components and the photoetched-metal screens for the tailgate stowage basket and radiator grille. Even the awkward roll cage went together perfectly.

Because the Land Rover is open-topped, I built it in several subassemblies — chassis, bed and cab floor, roll cage, dashboard/firewall, fenders, and hood — then airbrushed them the body color and hand-painted details. I left the clear parts as well as the wheels with their rubber tires off until after painting.

I was worried about everything fitting, given the number of components that need to meet just right for alignment. I worked



HobbyBoss' Land Rover has a separate hood to show off a detailed turbo diesel engine, complete with fan warning placards. The only things missing are ignition wires.

slowly, pressing everything together as I went, and letting the parts dry before moving on. In the end it looks right, and all four wheels touch the ground.

The decals are thin. I've learned from experience not to use setting solution with HobbyBoss decals. Instead, I float them off the sheet into a puddle of water, maneuver them with a brush to the right place, then blot the excess. If necessary, a little Micro Sol will help them settle into detail.

The delicate photoetched-metal headlight guard fit very well.



Kit: No. 82446 **Scale:** 1/35

Manufacturer: HobbyBoss, www.hobbyboss.com, from Squadron Mail Order, 877-414-0434, www.squadron.com **Price:** \$48.99

Comments: Injection-molded, 254 parts (10 photoetched metal, 5 vinyl), decals

Pros: Good moldings and fits; easy-to-follow instructions; great photoetched metal **Cons:** Minor inaccuracies, such as spare-wheel and rifle mounts

The model includes an M2 .50-caliber machine gun for the turret ring, an FN MAG for the passenger's pintle mount, and two SA80 rifles in a rack between the seats. The rifles should probably be mounted vertically, and the spare tire should be on the side of the roll cage, not the hood. The tires are correct for early-service WMIKs.

But these are minor gripes about what is otherwise a nice kit that builds into a solid model of a neat vehicle. I spent 22 hours on mine.

— Aaron Skinner

**AWKWARD
ROLL CAGE
WENT
TOGETHER
PERFECTLY**

Airfix Vickers Valiant BK.Mk.1



The Valiant was the first of the Royal Air Force V-Force bombers to enter service. Designed as a strategic nuclear strike aircraft, the Valiant's career ended early after a change to low-level flying revealed corrosion in the wing spar.

Airfix's Valiant is a big model of a big plane. Molded in blue-gray plastic, the parts show recessed panel lines that are a little deep and wide, but crisp. The molded detail such as the speed brakes is sharp and the thinness of the wing fences and vortex-generator vanes the finest I've seen.

Options include posable crew hatch, separate control surfaces (except the flaps), different noses and tails. Decal options include an all-white aircraft used during Operation Grapple nuclear tests, an operational all-white aircraft with low-visibility markings, a camouflaged bird from 1963, and the second prototype in overall aluminum.

The interior includes the upper and lower decks with crew seats, control yokes, and decal instrument panels. The pilots' seats have molded-on harnesses.

Everything fits well and the large locator tabs make alignment a snap, especially when gluing the cockpit into the right fuselage half. The two cabin windows fit neatly. The gear wells have rib detail, and they fit perfectly.

The kit provides several options for the large bomb bay. You can leave it closed, or open with either the Blue Danube nuclear bomb or two dozen 1,000 pound bombs. The instructions are clear about which ordinance is right for the different marking options.

If you build the bay closed, Airfix supplies several plastic bulkheads to make the fuselage more rigid. They also provide optional parts for the belly, aft of the bay, to replicate the panel that slides up to improve airflow.

I built the bay open, but left the nuke out for painting.

The fuselage went together perfectly despite all of the bits and pieces that need to be in just the right place. Don't forget to add weight up front; the instructions call for 22 grams (about ¾ ounces). I used a lead tire-balance weight to be sure.

The only fit problem I had was the intakes. The upper and lower halves go together well, but the seams are obvious and hard to fill and sand. To eliminate the gaps, I applied tape to the rear ends and poured white acrylic paint into the intakes, turning them over several times to coat the sides before removing the tape and letting the paint drain out.

I fretted about the fit of the wing, but my concerns melted away when I slotted it into position. The one-piece upper wings sets the anhedral, forms the upper fuselage, and fits mostly along panel lines. I used a little Mr. Surfacer 500 and sanding at the back where the parts joined in the middle of a panel. I also added super glue to the wing edges to eliminate seams. The fit of the exhaust fairings to the wings was less than perfect and needed filling and sanding to clean up.

The canopies fit exactly, and the distinct frame moldings made masking easy.

To finish my Valiant as an anti-flash white aircraft from No. 49 Squadron, I

base-coated with gloss aluminum and flat white to aid coverage and hide the dark plastic and filler, then painted with Tamiya spray-can pure white.

The Cartograf decals (thanks, Airfix!) are thin, perfectly printed, and lay down over detail with a little Micro Set. Be prepared to spend a couple nights with the decals because of all the tiny (yet legible) stencils.

Airfix has hit one out of the park with the Valiant. Not only is the finished model impressively large — more than 18" in length and span — but the engineering, options, and fit are top-notch and make for an enjoyable building experience.

— Aaron Skinner



Kit: No. A11001 **Scale:** 1/72

Manufacturer: Airfix, 44-1428-701191, www.airfix.com, from Hornby America, 253-922-7203, www.airfix-usa.com

Price: \$56.99 **Comments:** Injection-molded, 142 parts, decals **Pros:** Great engineering and fits; thoughtful options, terrific decals **Cons:** Needs a little filler in awkward spots; slightly heavy panel lines

AEROCINEMA

www.AeroCinema.com
WWII DOCUMENTARY FILMS
Unique untold Aviation stories
Great Online Documentaries. Watch Now

JTR HOBBY

www.jtrhobby.com
Armor, Aircraft, Figures, Detail and Conversion Sets.
Great Shipping Rates For Canadian Customers

ROLL MODELS

www.rollmodels.com
We carry the best from A-Model to Zatz and 37,000 things
in between! Find it with our easy-to-use search engine.
763-545-0399

DISCOUNT PLASTIC MODELS

www.DiscountPlasticModels.com
Save 20-75% On Model Kits and Supplies
Over 15,000 Hobby Supplies On Line
Serving Our Customers Since 1940

www.Megahobby.com

Selling online for over 10 years
Website Updated Daily • Over 20,000 Items
Huge Discounts Free Shipping
Toll free Friendly Service • 888-642-0093

TAUBMAN PLANS

www.taubmansonline.com
Loyalhanna Dockyard
www.loyalhannadockyard.com

HOBBYBUY.COM

Check our website for
SUPER SALES
www.HobbyBuy.com

MICHIGAN TOY SOLDIER COMPANY

www.michtoy.com
One of the world's largest selections of modeling
diorama & scenic supplies, tools, paints, unique
model & historical figure kits

TOTALNAVY.COM

www.TotalNavy.com
ALL SHIPS, ALL NAVIES, ALL KINDS
(718) 471-5464

JAC HOBBIES

www.jachobbies.com
Aircraft, Armor and Ships
Excellent products, prices and service equal more
value for your dollar! (208) 861-6851

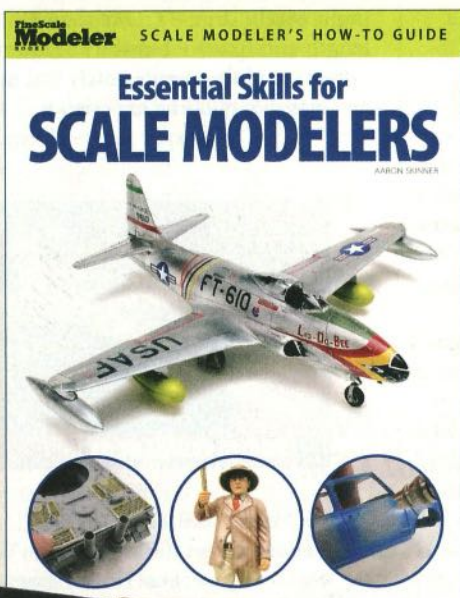
PLASTICMODELWORLD.COM

"Your Online neighborhood hobby store"
1000's of kits, tools, airbrushes and accessories
all at deep discount prices. ORDER ONLINE
WWW.PLASTICMODELWORLD.COM

VIDEO WORKBENCH

www.VideoWorkbench.com
Instructional videos that teach tips, tools and techniques
in model kit building construction & design that include car,
WWII & jet aircraft, sci-fi ships & military figures.
info@videoworkbench.com / (414) 839-4572

Enthusiasts For Life

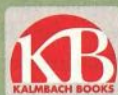


MASTER THE SKILLS PRODUCE GREAT RESULTS!

Mastering basic skills is crucial for building realistic scale models. *Essential Skills for Scale Modelers*, written by *FineScale Modeler's* Aaron Skinner, lays the foundation needed to build, paint, weather, and display all types of models.

Learn how to airbrush, work with resin, handle photoetched metal parts, get many more modeling techniques as you work through a variety of projects building armor, aircraft, cars, ships and more!

#12446 • \$21.95



Buy now from hobby shops! To find a store near you, visit www.HobbyRetailer.com
www.KalmbachStore.com or call 1-800-533-6644

Monday - Friday, 8:30 a.m. - 4:30 p.m. CST. Outside the United States and Canada call 262-796-8776, ext. 661.

2F2013

WATCH YOUR MODELING SKILLS TAKE OFF!

Need tips on construction? Applying paint finishes?
Working with decals? Using aftermarket parts?

FineScale Modeler SPECIAL EDITION

Build Better Model Aircraft

OUR EXPERTS SHOW YOU HOW

HOW TO
ASSEMBLE • DETAIL • PAINT • AIRBRUSH
CAMOUFLAGE • WEATHER • DETAIL
& MORE!



The most-requested feature articles from FineScale Modeler

SAVE \$1 PLUS FREE SHIPPING!

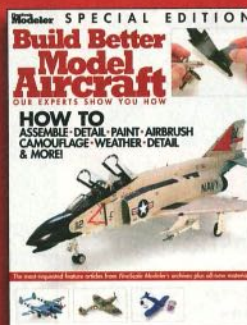
EXPERTS SHOW YOU HOW!

Practice makes perfect, but experienced advice will get you there faster. Master the expert tips and techniques in **Build Better Model Aircraft**, and you'll be on your way to building **accurate, realistic, scale models in no time!**

Clear, easy to understand instructions and step-by-step photography guide beginner and more seasoned modelers through new projects along with the most requested aircraft how-to articles from *FineScale Modeler's* archives.

BUILD BETTER MODEL AIRCRAFT IS AVAILABLE IN BOTH PRINT AND DIGITAL EDITIONS.

Simply select the format that's best for you – or choose both!



Order online at
www.FineScale.com/ModelAircraft
or call **1-800-533-6644**

Monday – Friday, 8:30 a.m. – 4:30 p.m. CST.
Outside the United States and Canada call 262-796-8776, ext. 661.
Please have your credit card ready.

Build Better Model Aircraft arrives in mid-November 2011.

Rare Kits?

- 4000+ kits in stock
- online inventory
- we buy kit collections

www.oldmodelkits.com

STRIKE FORCE HOBBIES

FULL LINE OF: Plastic Model kits • Model Railroad accessories & kits
Diecast Models • Books, Videos, Magazines and so much more...

VISA World Wide shipping via Fed Ex, UPS & Canada Post **PayPal**

www.strikeforcehobbies.com

BEAVER MODEL

Order an authentic 1/24 scale replica DeHavilland Beaver Floatplane. The bright yellow model with 24" wing span has 26 snap together pieces.

Send \$25.95 via check or money order (US funds) to: Cedar Creek Trading Post, PO Box 438 Dept. #200 Cedarburg, WI 53012 • Email: cctpbear@yahoo.com
Orders outside continental US add \$7 for shipping

HOP ON OVER FOR A GREAT DEAL!

Specialists in all high quality hobby products.

REDFROG

hobbies.com
www.redfroghobbies.com
e-mail: sales@redfroghobbies.com
We Ship Worldwide

ROBERTS MODEL

A/C parts in 5 popular scales.

COMBAT MODELS

VACUFORMED MODELS

1/48 C-121 "Connie"
Full multimedia kit. \$59.95/\$18.00 post

Lists \$1.00 Website: www.CombatModels.us
Roberts Model 18. E. Clay Ave.
W. Hazleton, PA. 18202 USA
Phone: (570) 450-5647 • TallesenR@aol.com

"Celebrating Our 41st Year!" "Since 1969"

COLPAR HOBBIES

PLANES • ARMOR • CARS • SHIPS • SCI-FI

We carry a huge inventory of plastic model kits from around the world! Full Line of Detailing Accessories. Airline models, Decals, Books, Promos, Die Cast Collectibles, Historical & RPG Games & Miniatures, Airbrushes & parts. Large Paint and Tool inventory. Full line R/C department. We ship worldwide.

www.colpar.com

COLPAR HOBBIES To order call: 1-800-876-0414
804 S. Havana St. For information: 303-341-0414
Aurora, Co 80012 Fax line: 303-341-1554

Martin P6M SeaMaster

A Must-Have SeaMaster Reference!

This detailed, 224-page book chronicles the history of the most advanced seaplane ever produced. Includes fold-outs, photos and specifications.

Signed by Co-Author Stan Piet **Only \$44** (S&H included)

www.nostalgiplastc.com
All Major Credit Cards
2325 Western Ave. Ste. 6 • Las Vegas, NV 89102
contactus@nostalgicplastic.com • 702-564-2851

DIORAMAS PLUS

For the best in 1/35 diorama kits
406-273-0942 • Call for catalog
www.dioramasplus.com
5323 Fiddler Ct., Florence, MT 59833 USA

OLD PLASTIC MODEL KITS

Movie Classics, LLC

Offers more than just classic books and movies.

- 1,000's of models available •
- Online catalogue •
- Reasonable pricing •

www.buymovieclassics.com
Email: movieclassics@att.net 248-933-5299

FANTASTIC PLASTIC

Unique Resin Kits for Experienced Modelers

Visit the Virtual Museum Store
www.fantastic-plastic.com
Concept Aircraft • Spacecraft • Sci-Fi • Luft '46

Professional Precision Tools

Modeler's Tool Sets • Files • Saws • Adhesives
Tweezers • Pliers • Cutters • Drills • Vision Aids

Supplies for Model Building,
Miniatures, Hobbies and Repairs

TOOLS GS Shop www.ToolsGS.com
or call 800.295.3050

Dean's Hobby STOP

Specializing in hard-to-find & OOP kits.

We have over 8000 kits in stock from old Aurora to new releases. Please contact us for a FREE catalog. **Please specify cars or military.** Check with me before you sell.

We Buy Collections!

214 E. Main St. • Flushing, MI 48433
(810) 659-2137 • Fax: (810) 659-0937
www.deanshobbystop.com
deanshobbystop@comcast.net

ACRYLIC CASES

Custom-made acrylic boxes, frames and bases to display your treasured collectibles.

TODAY'S ACRYLIC MFG. CORP.
70A East Jeffry Blvd., Deer Park, NY 11729
(631) 243-1882 • FAX (631) 243-1883
e-mail: info@todaysacrylic.com
<http://www.todaysacrylic.com>

MONARCH Models Fun for the Whole Family!

Šinbad! THE GHOST! NOSFERATU! GORGOL!

www.monarchmodelcorp.com



IN THE NEXT FSM

AFRIKA KORPS PANZER

Modeling fundamentals give this PzKpfw III Ausf G real scale-modeling firepower!

KC-135 CONVERSIONS

Three kits and three conversions produce three distinct versions of this venerable airframe in 1/139 scale.

MODEL SHIP BUILDING ESSENTIALS

Don't miss the end of the voyage as the USS Independence makes home port.

BATTLE OF BRITAIN DIORAMA

Diorama structures and water in a realistic scene from Great Britain's finest hour.

ON SALE NOVEMBER 1!

Look for it at your local hobby shop.

SUBSCRIBE TODAY
1-800-533-6644
Order online at www.FineScale.com

FineScale
Modeler
MAGAZINE

Classified Marketplace

This section is open to anyone who wants to sell or buy scale modeling merchandise. FSM reserves the right to edit undesirable copy or refuse listing. For FSM's private records, please furnish: a telephone number and a street address.

All Copy: Set in standard format. First several words only set in bold face. If possible, ads should be sent typewritten and categorized to ensure accuracy.

Coming Events Rate: \$35 per issue (55 word maximum). Ads will contain the following information about the event: state, city, sponsoring organization and name of event, meet, auction or show, dates, location, times, admission fee, name and/or telephone number and/or email of person to contact for information. Name, daytime telephone number and street address of the person providing the information is also required but need not be included in the ad. Unless otherwise requested, ads will be published in the issue month that the event occurs in. Additional months are available at the \$35 per issue fee. Please specify issue date(s).

Word Ad Rates: 1 insertion - \$1.13 per word, 5 insertions - \$1.08 per word, 10 insertions - 99¢ per word. \$20 minimum per issue. Count all initials, single numbers, street number or name, city, state, zip, phone numbers each as one word. Payment must accompany the ad. To receive the discount you must order and prepay for all ads at one time. We accept Visa, Mastercard, American Express and Discover.

Send Your Ads To: *FineScale Modeler* - Classified Marketplace, 21027 Crossroads Circle, P.O. Box 1612, Waukesha, WI 53187-1612. Phone toll-free: 1-888-558-1544, Ext. 815, or fax: 262-796-0126. E-mail: onlineclassads@kalmbach.com

Closing Dates: Published 10 times a year. Jan. 2011 issue closes Oct. 6, Feb. closes Nov. 3, Mar. closes Dec. 3, April closes Jan. 4, May closes Feb. 9, July closes April 6, Sep. closes June 8, Oct. closes July 11, Nov. closes Aug. 9, Dec. closes Sept. 6.

COMING EVENTS

CA, BUENA PARK: 93rd Kit Collectors Exposition & Sale, UFCW Hall, 8550 Stanton Ave. Sunday, November 13, 2011, 9:00am-3:00pm. Admission \$5.00, children under 12 free with paid adult. Thousands of rare, hard-to-find model kits and collectibles! Information: Edie Keller at 714-826-5218 or SASE to Kit Collectors Expo, PO Box 38, Stanton, CA 90680 or kitcollectorsshow@yahoo.com

IL, SCHAUMBURG: The Military Miniature Society of Illinois holds its 37th Annual Chicago Show Saturday, October 15th, 2011 in the Grand Ballroom of the Chicago Marriott-Schaumburg, 50 N. Martingale Dr. 9:00am to 5:00pm. For more information go to: www.mmsichicago.com or contact Dave Peschke at: gldwing86@aol.com 815-678-6678.

NY, Poughkeepsie: HVHMG 2011 Celebrating 25 years, Elks Club Lodge, Overlook Rd. October 22, 2011. Sponsored by IPMS Mid-Hudson. Registration 9:00am-noon. More information at www.HVHMG.com or contact John Gallagher at ggallagherjoh@optonline.net or 845-462-4740.

Local Hobby Shop Directory

Local Hobby Shop Directory listings are available for the next ten issues for \$275 (payable in advance) or at \$37 per issue (billed to established accounts for a minimum of ten insertions). Ads will be set in standard listing typography. All insertions must be consecutive and may be invoiced if you have credit established with us. No mention of mail order business permitted. For information call 1-888-558-1544, ext. 815. Closing dates listed in Classifieds section.

ARIZONA • Glendale

"The Best in Plastic Models". 1000's of plastic kits at discount prices. Photo-etched and resin accessories. Books, tools, paint and wooden ships. We welcome special orders.

ANDY'S HOBBY HEADQUARTERS
15224 N. 59th Ave., Ste. 12 602-439-1456

ARIZONA • Tempe

New & used, out-of-print military books, Magazines • Figures • Plastic Models resin detail and conversion kits

AVALON WAR BOOKS & HOBBIES
1510 N. Scottsdale Rd. 480-994-2263

ARIZONA • Tempe

Specializing in plastic models & accessories. Large selection of plastics, after-market detail accessories, decals, paint, books & tools. Full-line hobby shop.

HOBBY DEPOT
216 W. Southern Ave. 480-968-1880

ARKANSAS • Jacksonville

Headquarters for scale hobbies. Models: N-HO-O-G trains; gaming; tools; paints; etc. Decals & special orders. One-half mile south of Wal-Mart. Open 10-6, closed Sundays and Wednesdays

RAIL & SPRUE HOBBIES
1200 John Harden Dr. 501-982-6836

CALIFORNIA • Burbank

Large selection of plastic kits, paints, and supplies. Special orders no problem. Visit us in person or online www.houseofhobbies.com Secure online ordering

BURBANK'S HOUSE OF HOBBIES
911 S. Victory Blvd. 818-848-3674

CALIFORNIA • Canoga Park

Kits, plastic & wood. Slot cars & toys. Rockets, paint, glue and tools. Trains from Z to O. Monday-Saturday 10-7; closed Sunday. www.scalemodelstuff.com

SCALE MODEL STUFF
7259 Canoga Avenue 818-716-7847

CALIFORNIA • Garden Grove

20% OFF ALL PLASTIC KITS. Plastic aircraft, armor, ships, cars, decals, books, paints, tools, miniatures wargames. Mon-Fri 11-8, Sat 10-7, Sun 11-5. www.brookhursthobbies.com

BROOKHURST HOBBIES
12188 Brookhurst St. 714-636-3580

CALIFORNIA • Hollister

Model planes, cars, ships & figures. Model train scales: Z, N, HO, O & G. Paints, tools, R/C & parts, incl. service. Craft & educational kits, supplies, products. ESU Lok Sound Dealer - clinics available. Tu-Sat 11-6; Sun 12-4.

B.C.T. HOBBY & CRAFTS
201-C McCray St. 831-635-0537

CALIFORNIA • La Mirada

Wide variety of plastic kits. Old Nascar Kits - please call. Mon - Sat 10-6. Closed Sunday.

R HOBBIES
14269 Imperial Hwy. 562-777-9492

CALIFORNIA • Lakeside (San Diego)

San Diego County's best choice for plastic models. Aircraft, armor, cars, ships. New/used items. We buy collections! Tue-Fri 12-5:30ish, Sat 11-5. www.philipshobbies.com

PHILLIP'S SCALE MODELS
9939 Maine Ave. 619-562-1790

CALIFORNIA • San Juan Bautista

Model aircraft, cars, ships, armor, figures. Diecast, books, paint, tools. HO & N scale trains. Open 7 days 11:00 to 5:00

FLYING FORTRESS HOBBIES
207 Third St. 408-710-2356

CALIFORNIA • San Mateo

Your source for plastic models, die cast and all supplies need to finish your latest model. Mon-Sat 9:30-6, Sun 11-5. www.talbotstoyland.com

TALBOT'S HOBBIES
445 South "B" Street 650-342-0126

CALIFORNIA • Santa Barbara

Great select of plastic kits; aircraft, armor, cars & ships. Rare & collector kits. Outstanding stock of paint, tools, books, scratch bldg supplies & airbrushes. Rockets, R/C planes & cars. 7 days/wk. www.daveshobbycentral.com

DAVE'S HOBBY CENTRAL
14 West Anapamu 805-965-2972

CALIFORNIA • Ventura

Large selection of domestic & import plastic aircraft, armor, ships, cars. Rare kit corner. RR & supplies, rockets. Mon 12-6, Tues-Sat 10-6 (Fri 'til 8), Sun 11-5. www.venturahobbies.com

VENTURA HOBBIES
2950 Johnson Dr. #128 805-658-8138

COLORADO • Aurora

Large inventory of models from the world over! Detailing accessories, research publications, games, trains, R/C, tools, and supplies. Easy access from D.I.A. <http://www.colpar.com>

COLPAR HOBBIES
804 S. Havana 800-876-0414

CONNECTICUT • Cos Cob

Planes, tanks, cars, ships, rockets, plastic and wood kits. Trains. Authorized Lionel dealer & repair. Die-cast, RC, slot cars, structural and diorama supplier. Special orders welcome.

ANN'S HOBBY CENTER
405 E. Putnam Avenue 203-869-0969

BUYING UNBUILT KIT COLLECTIONS! 200 kits or 2,000! Especially looking for 50s & 60s kits (Aurora, Revell, Monogram, Lindberg, etc.), Ships, Space, Sci-Fi & Figures, decals and after-market items and more! We spent over \$50,000 on collections last year! Pickup often available. Send list: Jeff Garrity, 2325 Western Avenue, Suite 6, Las Vegas, NV 89102 or rare-plane@cox.net If collection is too large to easily list call 702-564-2851.

I WANT TO BUY YOUR UNBUILT MODEL KITS. Any size collection. Dean Sills, 214 E. Main, Flushing, MI 48433. 810-659-2137. Fax: 810-659-0937. E-mail: deanshobbystop@comcast.net

MODEL CAR AND TRUCK KITS. Unbuilt or built. Any size collection. Good prices paid. Please contact: Fred Sterns, 48 Standish, Buffalo, NY 14216. Phone: 716-838-6797. Fax: 716-836-6057. E-mail: fsterns@aol.com

YOU WILL NEVER FIND TIME TO BUILD ALL THOSE MODELS. Top dollar paid for kit collections of any size. Milam Models, 519 DiLorenzo Dr., Naperville, IL 60565. Phone: 630-983-1407. Fax: 630-369-0106. jetpilotpaul@aol.com

- Talking face-to-face with each reader ... impossible!
- Sending a letter to each reader ... expensive!
- Running a classified ad ... smart!

Got something to sell?
Looking to buy something?
Need to promote your business?
Classified advertising is easy, affordable, and definitely smart.

Call today to place your ad.
1-888-558-1544 x815

CONNECTICUT • East Windsor

Old & rare kits, largest selection in military kits, rockets, trains, & cars. Exit 45 off I-91. 10 minutes from Bradley Air Museum. craftc11@netzero.com

CRAFTEC HOBBIES
144 North Road 860-627-7811

CONNECTICUT • Manchester

Largest hobby shop in NE. Military, cars, trucks, plastic models, diecast cars, trucks. Planes, RC planes, cars, trucks, slot cars, rockets, Breyer. Detailing supplies, games! Mon - Sat 10-8, Sun 10-5

TIME MACHINE HOBBY
71 Hilliard St. 860-646-0610

CONNECTICUT • Milford

Extensive selection of armor kits & Verlinden accessories. Military, auto & aircraft plastic models. Photo-etched parts. O gauge train sets. Open Tue-Sat 11-6, Sun 12-5. www.hqhobbiesonline.com

HQ HOBBIES
394 New Haven Ave., Unit 1 203-882-1979

FLORIDA • Largo

Best selection for plastic scale modelers in Florida State! Import / Export Germany-USA Custom Made 1/6 R/C Tanks & Figures New Warehouse Outlet Mo-Fr 10-6, Sa 10-2 www.modelers-paradise.com

MODELERS-PARADISE LTD. CO.
13355 Belcher Rd. S. 727-388-4903

GEORGIA • Blue Ridge

Huge selection of model kits & accessories. Ships, Armor, Aircraft, Figures, Cars and more. Visit: www.freetimehobbies.com for complete listing.

FREE TIME HOBBIES
4167 East First St. (by KFC) 706-946-1120

HAWAII • Kailua, Oahu

Wide selection of domestic & foreign kits, paint, books, tools & craft supplies. Located on the beautiful windward side, 20 minutes from Honolulu. Mon-Fri 10-6, Sat 10-5, Sun 11-2

WELLER'S HOBBY CRAFT
767 Kailua Road 808-262-0211

ILLINOIS • Elmhurst

For over 60 years largest hobby shop in the Chicago area at 6,800 sq. ft. Plastic models, paint, RC, cars, planes, helis, boats, slot cars, HO, 1/32, Rockets. We ship world-wide.
Email: models@alshobbyshop.com

AL'S HOBBY SHOP

121 N. Addison Ave. 630-832-4908

ILLINOIS • Woodstock

Large selection of wooden and plastic models. Detailing and building supplies.
Tues - Fri 10-6, Sat 10-5, Sun 12-4.
Closed Mondays.

Visit us at www.woodstockhobbies.com

WOODSTOCK HOBBIES, LTD.

124 Cass St. (Woodstock Sq.) 815-337-8770

MASSACHUSETTS • Malden (Boston)

Largest store in area, easy access via I-93, Rt. 1, and the T. Complete line of model kits & supplies, plus toy soldiers, figure kits, games, etc. Shipping available.
Info: hobbybunker.com

HOBBY BUNKER, INC.

33 Exchange St. 781-321-8855

MASSACHUSETTS • Norton

9,000 model kits, old and new: Autos, armor, planes & sci-fi. Reference books & supplies. Open T-Th 11-7, F 11-8, Sa 10-5, Rt. 495 to Rt. 123E, behind Dunkin' Donuts. www.mymummy.com E-mail: mummy@mymummy.com

HARRY'S HOBBIES & COLLECTABLES

250 E. Main St., Rt. 123 508-285-8080

MICHIGAN • Royal Oak (Metro Detroit)

New & Old Toy Soldiers, Historical Miniatures, Models and Figure Kits from Around the World. Our famous selection of hobby supplies includes sculpts, paints, reference and more. www.michioy.com

MICHIGAN TOY SOLDIER & FIGURE CO.

1400 E. 11 Mile Rd. 248-586-1022

MICHIGAN • Traverse City

Let your imagination run wild! Aircraft, ships, cars, armor, special orders, diecast cars, dollhouse miniatures, model railroading Z to G and more...

TRAINS & THINGS HOBBIES

210 East Front St. 231-947-1353

MICHIGAN • Ypsilanti-Metro Detroit

Michigan's largest selection of kits. All types and scales plus supplies. Hard to find kits and current issues. Wed-Sat 11-8, Sun 12-5. 15 minutes west of DTW via I-94.

MODELCAVE

103 W Michigan Avenue 734-316-2281

MINNESOTA • Waite Park (St. Cloud)

Central Minnesota's full line hobby shop.

www.bakershobby.com

BAKER'S HOBBY EMPORIUM

51 3rd Street NE 320-252-0460

NEVADA • Las Vegas

Now at a NEW LOCATION! While in Las Vegas, come see our wide selection of models and detail accessories. Less than 5 miles off the Las Vegas strip. Hours Mon-Fri 10-7, Sat 10-6, Sun noon-5.

HOBBYTOWN USA

4590 W Sahara Ave Ste 103 702-889-9554

NEW HAMPSHIRE • Dover

Best plastic, resin & balsa kits from around the world. Scratch building & diorama supplies, reference books, large paint selection including Humbrol, Citadel & Testors

ELITE HOBBIES

#334 90 Washington St. 603-749-0800

NEW JERSEY • Kenil

Full service hobbies, a full line of HO, N, 3-Rail, military, cars, boats, planes, dollhouses, scratchbuilding supplies, plus details-details-details!

KENIL HOBBIES

590 Rt. 46 973-584-1188

NEW JERSEY • Magnolia (Camden)

Huge foreign & domestic model selection all scales. Automobiles, aircraft ship, books, wargames, scenery, diorama supplies, parts, tools. Open 7 days

AAA HOBBIES & CRAFTS

706 N. White Horse Pike 856-435-7645

NEW YORK • Astoria L.I.C.

Car, Plane, Military, Models, Trains, Paints, Tools, Diecast. Art Supplies, Wood & Wood Models. Open Wed., Thur., Fri., Sat. 11:00 to 6:30.

RUDY'S HOBBY & ART

35-16 30th Avenue 718-545-8280

NEW YORK • Buffalo

All Scales/Brands. Open Daily. Visit our 39-ton caboose! Near Walden Galleria. Lionel Authorized Service Station/ Value-Added Dealer www.niagaraahobby.com

NIAGARA HOBBY & CRAFT MART

3366 Union Rd. (at Walden) 716-681-1666

NEW YORK • Deer Park

Military oriented hobby shop. Armour, naval & aircraft models. After market products incl., tank tracks, diorama materials, books, mags, tools, paints, war videos, slot cars & more. Call for hrs. www.aisandmdseco.com

ALSAID'S TOY SOLDIERS PLUS

848 Long Island Ave. 631-254-2650

NEW YORK • Middle Island

Excellent selection of lead miniatures-historical and fantasy. Plastic models, wargames & modeling supplies. Books and magazines.

MEN AT ARMS HOBBIES, INC.

134 Middle Country Rd. 631-924-0583

NEW YORK • Sugar Loaf

Model kits: Sci-fi, Monster, Gundam, cars, aircraft, armor & boats. Sci-fi collectibles & toys. Paint, glues and tools. Flying rockets, pinewood derby, science & more. Call for hours.

NEXT GENERATION HOBBIES

1388 Kings Hwy. 845-610-5177

NEW YORK • Upr Eastside GR Manhattan

Visit our in-house Aircraft Model Museum. Foreign and domestic plastic and wood kits. Open 7 days.

JAN'S HOBBY SHOP, INC.

1435 Lexington Ave. 212-987-4765

OHIO • Cleveland (Lakewood)

Large selection of aviation and military books and magazines, general hobbies.

WINGS HOBBY SHOP

17112 Detroit Ave. 216-221-5383

OHIO • Columbus

Both complete stores. Great selection of Model Kits, accessories, detail parts, magazines, tools & paints. www.hobbylandstores.com

HOBBYLAND

Graceland Shopping Center 614-888-7500
Reynoldsburg 614-866-5011

OKLAHOMA • Owasso

Oklahoma's largest plastic kit, paint and after-market inventory. Planes, cars, armor, ships, trains and sci-fi. Special orders welcome! Mon - Fri 10-7, Sat 11-6, Sun 1-5. Web site: www.topshelfmodelsllc.com

TOP SHELF MODELS

119 S. Main St. 866-210-0687

OREGON • Beaverton

Complete full line hobby shop. Z, N, HO, O, Lionel, and LGB. Open Mon-Fri 10-8, Sat 10-5, Sun 12-5.

TAMMIES HOBBIES

12024 SW Canyon Rd. 503-644-4535

PENNSYLVANIA • Doylestown

One of Delaware Valley's largest selection of foreign & domestic kits, books, magazines and paints. Special orders welcome.
Mon-Fri 9:30-9; Sat 9:30-6; Sun 11-5. www.herbshobbiesandcrafts.com

HERB'S HOBBIES & CRAFTS

200 W. State Street 215-345-7123

PENNSYLVANIA • Salunga (Lancaster)

Large Selection New & Used Kits. Military books, tools, paint, airbrushes. Full line hobby shop open Tuesday-Saturday. www.CoolTrains.com

COOLTRAINS TOYS & HOBBIES

106 W. Main Street 717-898-7119

TENNESSEE • Murfreesboro

Rutherford Co.'s largest selection of hobby items. Carrying a wide variety of plastic & wood models, paints, tools & supplies. Located just off I-24 on Medical Center Pkwy (exit 76). Open M-F 10-7; Sat 10-5.

HOBBYTOWN USA

536-J N. Thompson Ln. 615-890-6777

TEXAS • Amarillo

Plastic aircraft, armor, cars, figures & ships, model railroading supplies & rockets. Take Osage exit I-40, outh to 34th St. Right 1/2 mile to Tradewind Business Park, turn left to 3601. <http://www.hobby-time.com>

HOBBY TIME

3601 Airway Blvd. 806-352-9660

TEXAS • Houston

HO & N, Lionel trains. Complete line of plastic kits, military and architecture supplies. Open 11am-6pm, Thur. to 7pm; Sat. 10am-5pm

G & G MODEL SHOP

2522 Times Blvd. 713-529-7752

TEXAS • Houston

Scale model cars, armor, aircraft, diecast. All kinds of plastic and wooden ships. Mon-Thurs 10-6, Fri & Sat 10-7, Sun 12-5.

LARRY'S HOBBIES

156-FM 1960 East 281-443-7373

TEXAS • Irving (Dallas Area)

Imported & Domestic Aviation Books & Plastic Kits. FAOW, Paint, Decals, HO, N trains, R/C, U/C airplanes. Mon 1-8, Tue-Wed 10:30-6, Thur-Fri 10:30-7. Sat 9:30-6. www.malhoobby.com

M-A-L HOBBY SHOP

108 S. Lee Street 972-438-9233

TEXAS • San Antonio

Scale modeling from beginner to expert. A wide selection of aircraft, armor, autos, figures, ships, & sci-fi. Lots of reference material, detail parts, decals, tools, & eight lines of paint. Open Tues-Sat 10-6pm.

DIBBLE'S HOBBIES

1029 Donaldson Ave. 210-735-7721

TEXAS • San Antonio

Lots of plastic models/ references/ accessories. 10% discount to current & retired Military or city personnel. Open Tue-Sat 10-7, Sun 1-6. www.hillcountryhobby.com

HILL COUNTRY HOBBY

9355 Bandera Rd Ste 109 210-681-2007

VIRGINIA • Chantilly

Minutes from Dulles Airport & New Dulles Air & Space Museum, Udvar-Hazy Center. PLASTIC! PLASTIC! PLASTIC! Kits for aircraft - armor - ships - cars Daily 12-8; Sun 12-5. www.piperhobby.com

PIPER HOBBY

13892 Metrotech Dr. 703-803-3103

VIRGINIA • Midlothian (Richmond)

Plastic and wood model kits. Tamiya, Hasegawa, Fujimi, Ertl, Lindberg, Monogram, Revell, Artesania, Midwest. E-mail: chsthobb@verizon.net Hours: Mon, Wed, Thur 10-6, Tue, Fri 10-8, Sat 10-5:30, Sun 12:30-5

CHESTERFIELD HOBBIES

13154 Midlothian Tnpk. 804-379-9091

WASHINGTON • Seattle

Large selection of plastic car and plane kits, Wooden boat kits and accessories. Scratch builders supplies - tools - paint, Military games

GARY'S GAMES AND HOBBIES

8539 Greenwood Ave. N. 206-789-8891

WASHINGTON • Seattle

Plastic Model Specialists. Large selection of rare & out-of-production models. Large selection of detail parts. Largest selection of plastic models in South Seattle! www.skywaymodel.com

SKYWAY MODEL SHOP

12615 Renton Ave. South 206-772-1211

WASHINGTON • Tacoma

Plastic, Wood, Diecast kits & collectibles. Armor, Aircraft, Cars, Ships, Balsa Planes. Huge selection Paints & Tools. OOP & Current issues. Open: Mon-Sat; closed Sundays www.ubhobbies.com

DISCOUNT MODELS

8216-C 27th St. W. 253-460-6781

CANADA-AB • Calgary

Specializing in R/C models and accessories, helicopters, planes, cars, trucks, boats, plastic, die-cast & model rockets. M T W F 9:30-6, Th 9:30-8 Sat, 9:30-5 www.modelland.com info@modelland.com

MODEL LAND LTD

3409A 26 Ave. SW 403-249-1661

CANADA-ON • Ottawa (Vanier)

One of Canada's leading model shops. Complete line of military & aircraft kits, decals, paints and accessories. Free parking. On Parle Francais.

HOBBY HOUSE, LTD

80 Montreal Rd. 613-749-5245

CANADA-ON • Toronto

Come see our new, spacious location. Large selection of new & out-of-production kits. Accessories & finishing products. Servicing the hobbies since 1986. We buy kit collections. www.wheelswingshobbies.com

WHEELS AND WINGS

1880 Danforth Ave. 416-752-0071

CANADA-QC • Dorval

We take care of special orders. Specializing in out of the ordinary kits, military, armor, figurines, planes, detail parts, decals, resin, photoetched conversions, books, mags. Many special discount prices.

HOBBY JUNCTION EXPRESS

1761 Cardinal 514-631-3504

SINGAPORE • Singapore

Old kits & latest releases. Good selection of unusual model kits & accessories. We stock electric trains & slot cars. Open 7 days. 1pm-8pm. In the Katong Shopping Centre. www.hobbybounties.com

HOBBY BOUNTIES & MORGAN HOBBYCRAFT

865 Mountbatten Rd #02-91/92 65-6440-1890

Run your Retail Directory
ad in the next issue of
FineScale Modeler!

Call 1-888-558-1544,
ext. 815 for more information.

**FineScale
Modeler**

Ad Index

We believe that our readers are as important as our advertisers. If you do not receive your merchandise or a reply from an advertiser within a reasonable period, please contact us. Provide details about what you ordered and the amount you paid. If no action is obtained after we forward your complaint to the advertiser, we will not accept further advertising from them. *FineScale Modeler* magazine, 21027 Crossroads Circle, Waukesha, WI 53187

The Advertiser Index is provided as a service to *FineScale Modeler* magazine readers. The magazine is not responsible for omissions or for typographical errors in names or page numbers.

AeroCinema	66
Albion Alloys LTD.	7
Alpha Precision Abrasives, Inc.	55
ARA Press	53
Aves Studio	55
Bluejacket Shipcrafters	9
Cedar Creek Trading Post	68

CH Imports	55
Colpar Hobbies	68
Combat Models	68
David Lee Design	53
Dean's Hobby Stop	68
Dioramas Plus	68
Discount Plastic Models	66
Dragon Models USA	10, 71
Evergreen Scale Models	53
Fantastic Plastic Models	68
FineScale Modeler Books	66
FineScale Modeler magazine	68
FineScale Modeler Special Issue	67
Gorilla Glue	9
G-S Supplies	68
HobbyBuy.com	66
Hornby America	9

Iwata-Medea	51
J Bar Hobbies	7
JAC Hobbies	66
JTR Hobby	66
Loyalhanna Dockyard/Taubman	66
M & Models	55
Megahobby.com	66
Michigan Toy Soldier Co.	66
Micro-Mark	7
Model Rectifier Corp.	2, 72
Monarch Models	68
Morning Sunshine Models	11
Movie Classics LLC	68
Oldmodelkits.com	68
Pace Enterprises	53
ParaGrafix Modeling Systems	11
Plane Crazy Enterprises	55

PlasticModelWorld.com	66
Plastruct, Inc.	55
Red Frog Hobbies	68
Rare-Plane Detective	68
Roberts Model	68
Roll Models	51, 66
Sprue Brothers	11
Stevens International	9
Strike Force Hobbies	68
Tamiya America, Inc.	3
Today's Acrylic	68
TotalNavy.com	66
Video Workbench LLC	66
Xuron	51
Zoukei - Mura, Inc.	4

1:48 Scale Model Kit 11008
NASA APOLLO 11
Lunar Module "Eagle"



DRAGON

DRAGON MODEL KITS

What's New and Hot!



**6440 - 1/35 Bison II 15cm s.IG 33
 (Sfl.) auf Pz.Kpfw.II**



6690 - 1/35 Neubau-Fahrzeug Nr.3-5



**6575 - 1/35 Pz.Kpfw.IV Ausf. J, Last Pro-
 duction**



7110 - 1/700 U.S.S. New York LPD-21



1054 - 1/350 German Z-31 Destroyer



7103 - 1/700 German Z-39 Destroyer

Distributed by :

DRAGONUSA

Dragon Models USA, Inc.
 1315 John Reed Court
 City of Industry, CA 91745

For detailed product information visit
<http://www.dragonmodelsusa.com>

Phone: 1 (626) 968-0322
 Fax: 1 (626) 968-0234
 Email: sales@dragonmodelsusa.com

To find a retailer near you go to
<http://www.dragonmodelsusa.com/shop>

Italeri brings reality to life.



1/48th Scale Bell OH-58D Kiowa (552704)

Superb Detailing. Unique Kits.

Realism you can enjoy.

Italeri continues to make kits to satisfy the serious hobbyist. Always innovative, Italeri's kit selection and choice of scales are often unique. This latest group showcases the Bell OH-58D Kiowa helicopter; Quonset Hut Barracks; UH-60A Black Hawk "Night Raid" and the 1933 Joan Crawford Cadillac Town Car.



1/72nd Scale Quonset Hut Barracks (556163)

1/48th Scale UH-60A
Black Hawk "Night Raid"
(552706)



MODEL RECTIFIER CORPORATION
80 Newfield Ave. • Edison, New Jersey 08837 • Phone: 732 225 6360 www.modelrectifier.com



TECHNOLOGY. PERFECTED.

☐ Model railroads ☐ Plastic model kits ☐ Battery chargers ☐ Radio control helicopters, planes, cars & boats ☐ Model aircraft engines ☐ Die cast